

PETROLEUM AND PETROLEUM PRODUCTS IN MONTANA

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Prepared by Department of Environmental Quality for the Environmental Quality Council

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The chance that foreign events will disrupt the petroleum markets is growing. Though the sources of the petroleum products used in Montana are relatively secure, Montana is part of an international market. Price changes in that market are quickly reflected in the Montana market. Steep increases in the price of petroleum products will affect all Montanans. This report provides the background information the Legislature and the public may need to respond to energy disruptions that may occur.

List of Tables and Figures

| Figure P1. | Historical Oil Production 1955-2001 | . P-2 |
|--------------|--|-------|
| Figure P2. | Production vs. Price, 1955-1997 | . P-3 |
| Figure P3. | Oil Production and Oil Well Completions, 1955-2001 | |
| Figure P4. | Refinery Receipts by Source of Oil, 1955-2001 | |
| Figure P5. | Annual Sales by Prime Suppliers | |
| Figure P6. | Average Monthly Sales by Prime Suppliers, 1990-2001 | |
| Figure P7. | Retail Price of Gasoline, 1990-2002 | |
| Figure P8. | Average Monthly Price of Gasoline vs. Sales, 1990-2001 | |
| Table P1. | Average Daily Oil Production, 1955-2001 | P-10 |
| Table P2. | Crude Oil Production and Average Wellhead Prices, 1955-2002 | |
| Table P3. | Number of Producing Oil Wells, 1955-2001 | |
| Table P4. | Refinery Receipts by Source of Crude Oil, 1955-2001 | P-13 |
| Table P5. | Refinery Receipts by Source of Oil, 1996-2001 | P-14 |
| Table P6. | Petroleum Product Consumption Estimates, 1960-1999 | P-15 |
| Table P7. | Residential Petroleum Product Consumption Estimates, 1960-1990 . | P-16 |
| Table P8. | Commercial Petroleum Product Consumption Estimates, 1960-1999 | P-17 |
| Table P9. | Industrial Petroleum Product Consumption Estimates, 1960-1999 | P-18 |
| Table P10. | Transportation Petroleum Product Consumption Estimates, 1960-199 | 9 . |
| | •••••• | P-19 |
| Table P11. | Motor Fuel Use, 1950-2000 | P-20 |
| Table P-12a. | Monthly Sales of Gasoline 1990-2002 | P-21 |
| Table P-12b. | Monthly Sales of Diesel, 1990-2002 | P-21 |
| | Average Retail Price of Gasoline, 1990-2002 | |
| Table P14. | Estimated Price of Motor Fuel and Motor Fuel Taxes, 1970-2001 | P-23 |

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PETROLEUM AND PETROLEUM PRODUCTS IN MONTANA

Montana Petroleum Quick Facts (in round numbers)

Recent production: 16 million barrels per year

Amount of crude production exported: 75 percent

Refineries in state: Billings (2), Laurel, Great Falls

Crude receipts at refineries: 57 million barrels per year

Source of crude refined in state:

Montana – 6 percent

Alberta – 73 percent

Wyoming - 20 percent

Amount of liquid fuel refined products exported: 60 percent

States petroleum products are exported to:

Washington

North Dakota

Wyoming (and points south)

Montana consumption of petroleum products: 31 million barrels (includes refinery usage)

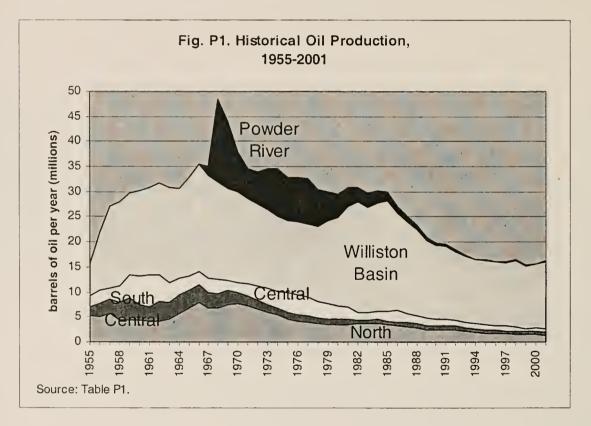
Gasoline sold in-state: 500 million gallons

1. Production History

The first oil wells drilled in Montana were located in the Butcher Creek drainage between Roscoe and Red Lodge, beginning in 1889. These wells were not very successful. The first significant oil production in the state came from wells drilled in the northward extension of Wyoming's Elk Basin field in 1915, southeast of Belfry. Montana's first new oil field was Cat Creek, near Winnett, discovered in 1920, soon followed by the Kevin Sunburst field discovery in 1922. Over the next 40 years, more oil fields were developed in the Williston Basin (northeast Montana), the Sweetgrass Arch (northern Montana), the Big Snowy Uplift (central Montana), the northern extensions of Wyoming's Big Horn Basin (south central Montana) and the Powder River Basin (southeastern Montana).

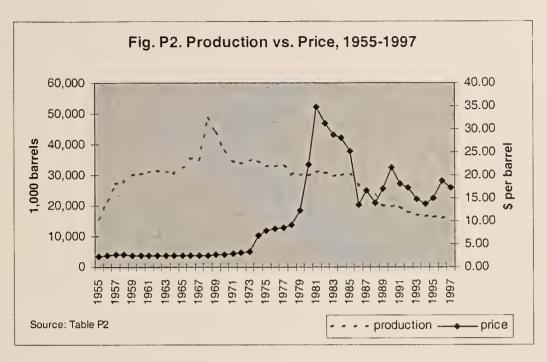
Montana's petroleum production peaked in 1968 at 48.5 million barrels (1 barrel = 42 gallons), the result of cresting Williston Basin production combined with a surge of production from the newly discovered Bell Creek field in the Powder River Basin (Table P1; Fig. P1, below). Production then declined quickly until 1971, when a series of world oil supply shocks began to push prices upward, stimulating more drilling. Production remained relatively stable between 1971 and 1974 as Powder River Basin output increased to match a decline in Williston Basin output. After 1974 production began to decline, despite the continued escalation of oil prices (Table P2).

Figure P1. Historical Oil Production 1955-2001



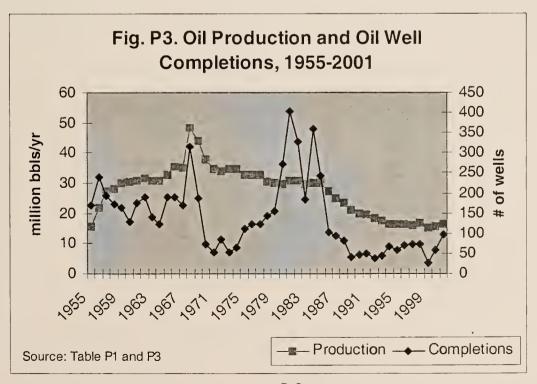
World oil price shocks following the Iran crisis in 1979 sparked a drilling boom, which peaked at 1,149 new wells of all types in 1981 (Table P3). That year, the average price of Montana crude climbed to almost \$35 per barrel. While the increase in the price of oil encouraged more drilling, it did little to increase Montana production (Fig. P2).

Figure P2. Production vs. Price, 1955-1997



The drilling produced a high percentage of dry holes and was unable to slow the decline in statewide production (Fig. P3).

Figure P3. Oil Production and Oil Well Completions, 1955-2001



Output increased in the Williston Basin during the early 1980s, but this was matched by a steep decline in output from other areas. Production declined significantly following the drop in world oil prices in 1985, stabilizing around 16 million barrels per year in the mid-1990's. Wells in Montana are not that prolific, averaging around 15 barrels per day in recent years (Table P1).

2. Refineries and Pipelines

Petroleum pipelines serving Montana consist of three separate systems (see Map, below.) One bridges the Williston and Powder River basins in the east and the other two link the Sweetgrass Arch, Big Snowy and Big Horn producing areas in central Montana. (A fourth—Express—primarily carries Canadian crude through Montana.) All these systems also move crude oil from Canada to Montana and Wyoming. In recent years, 75-80 percent of Montana oil production has been exported from the state, mostly to Wyoming through the eastern pipeline system. This pipeline system is not connected to any of the Montana refineries, which limits the amount of Montana crude they can use.

Montana refineries now use around 57 million barrels of crude a year (Table P4). In the last decade, only 5-10 percent of that came from Montana crude. Oil fields in the Sweetgrass Arch, Big Snowy and Big Horn areas provided crude to the four Montana refineries: Cenex in Laurel, Montana Refining in Great Falls, ConocoPhillips and ExxonMobil in Billings. Collectively, 70-75 percent of their crude oil came from Alberta, Canada and around 20 percent came from Wyoming. The shipments from Canada have increased since the late 1960s, as Montana oil production and imports of Wyoming crude declined. (Fig. P4, below)

MAP: Petroleum Pipelines in Montana

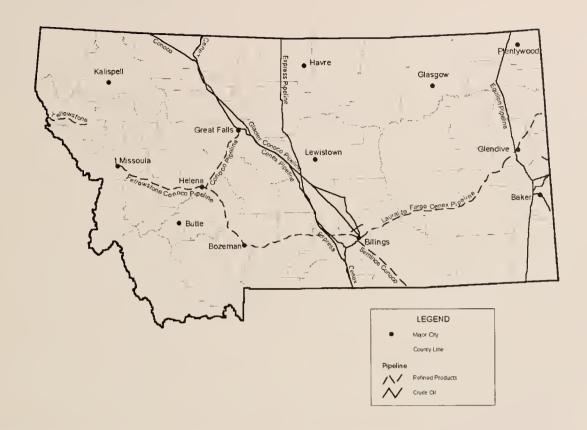
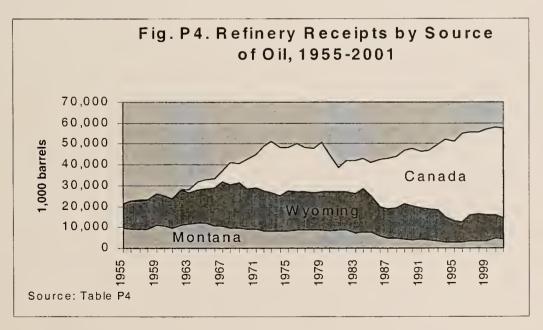


Figure P4. Refinery Receipts by Source of Oil, 1955-2001



The refineries vary in their sources of crude inputs (Table P5). ConocoPhillips is the most dependent on Canadian crude, taking an average (1996-2001) of 94 percent of its total receipts from Canada. ExxonMobil is the least dependent on Canadian crude (39 percent of receipts) but by far the most dependent on Wyoming (53 percent of receipts).

Almost all of refinery output is moved by pipeline. Montana refineries ship their products to Montana cities and east to Fargo, North Dakota (Cenex pipeline), to Wyoming and further south (Conoco Seminoe pipeline) and west to Spokane and Moses Lake, Washington (Conoco Yellowstone pipeline). In 2001, 29 million barrels of product were shipped out of state, in roughly similar portions on each pipeline, with the largest portion heading south.

The four refineries provided almost all of the petroleum products consumed in Montana. Beyond that, around 55-60 percent of the liquid fuel produced at the refineries is exported. Montana refineries provided about 10% of Washington's gasoline and distillate in 2001. That same year, North Dakota received over half its gasoline and distillate from Montana refineries.

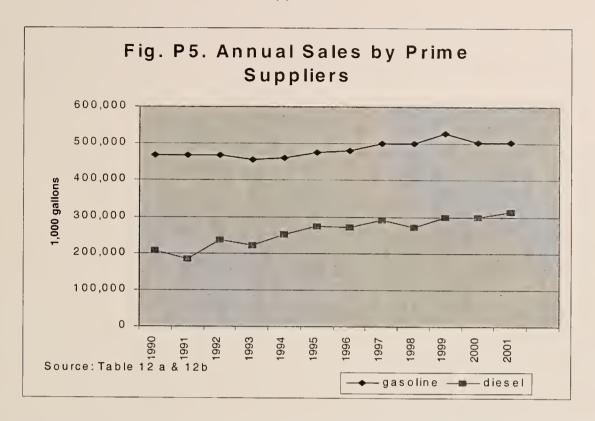
3. Petroleum Products Consumption

Petroleum product consumption in Montana peaked at 33 million barrels in 1979 (Table P6). It then drifted lower, settling in the mid-1980's around 24 million barrels per year. After that, consumption began a slow climb, to around 31 million barrels per year at present.

The transportation sector is the single largest user of petroleum and the second largest user of all forms of energy in Montana. In 1999, 38 percent of consumption was in the form of motor gasoline, 28 percent was distillate, mostly diesel fuel, and 9 percent was asphalt and road oil. Another 19 percent was consumed in petroleum industry operations (Table P6).

Gasoline use peaked in 1978, at half a billion gallons, dropped and slowly climbed back to around that level currently, with minor fluctuations since the mid-1990s (Tables P10 and P11). Diesel use generally has increased since the 1970's, though use may be flattening out now. During the 1990's, highway diesel use grew at a far greater rate than did gasoline use (Tables P11; Fig. P5, below).

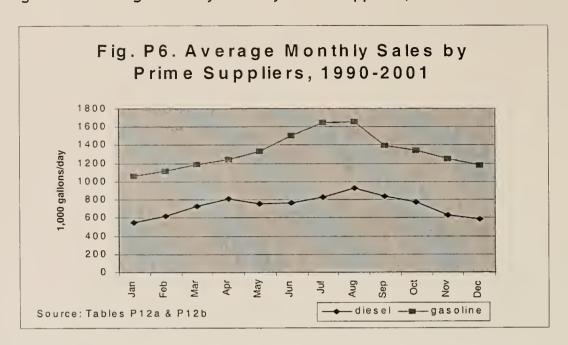
Figure P5. Annual Sales by Prime Suppliers



The fluctuations in demand for gasoline and diesel fuel since 1970 reflect changes in the state and national economy and the international price of oil. The embargo by the Organization of Petroleum Exporting Countries (OPEC) in 1973-1974 and the Iranian crisis of 1979-1980 drove prices up and demand down. The increase in prices prompted advances in vehicle efficiency and a fuel switch by heavy-duty trucks from gasoline to diesel. The crash in international prices in 1985, the economic growth of the 1980's and 1990's, along with the decline in vehicle fleet fuel efficiency in recent years pushed gasoline and diesel demand back up.

Fuel use shows a cyclical rise and fall through the year (Tables 12a and 12b; Fig. P6, below). Use tends to rise during the summer months and taper off during the winter. Diesel use also shows a modest peak in the spring, and a greater one at the end of the summer, possibly due to agricultural sector use. The winter trough in fuel use is more than a third lower from the summer peak. This seasonal pattern is caused both by variations in the use of Montana's one million vehicles and by the increase in tourist traffic during the summer.

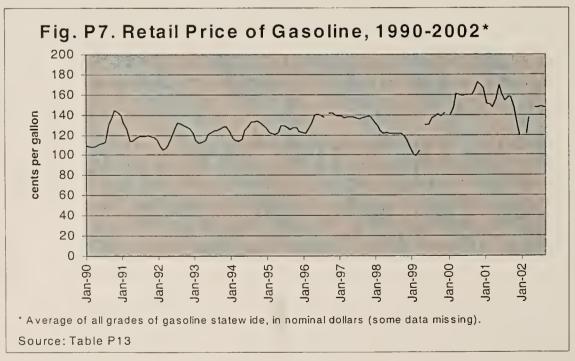
Figure P6. Average Monthly Sales by Prime Suppliers, 1990-2001



Note: Prime suppliers are those who provide product to local distributors or retailers.

The price of gasoline has been rising over the last decade, most significantly in the last few years (Table P13 and P14; Fig. P7)

Figure P7. Retail Price of Gasoline, 1990-2002



The price of gasoline can vary significantly around the state, a fact that is masked by the data, which only are available as statewide averages. (Complete data on the Montana price of diesel were not available.) The price of gasoline has a cyclical rise and fall, just like demand for gasoline; however, price lags demand, with peak prices tending to appear after the peak driving season (Fig. P8).

Fig. P8. Average Monthly Price of Gasoline vs Sales (1990-2001) 140.0 1,800 1,600 135.0 1,400 cents per gallon i,000 gallons/day 1,200 130.0 1,000 800 125.0 600 400 120.0 200 115.0 Aug Sep May -eb Apr Jun Jn Oct Jan Source: Tables P12a and P13 price -

Figure P8. Average Monthly Price of Gasoline vs. Sales, 1990-2001

4. Comments on the data

Data for this report come from a variety of sources, which don't always agree exactly. In part this is due to slightly different data definitions and methods of data collection. The reader should always consider the source and context of specific data.

Table P1. Average Daily Oil Production per Well and Annual Production by Region, 1955-2001

| Hagin Average North South Central (6.5) 5,214,926 1,896,630 2,160,479 15,6 5,083,953 2,585,437 2,610,047 19,6 5,083,953 2,585,437 2,610,047 19,6 5,083,953 2,585,437 2,610,047 19,6 4,348,256 3,590,534 4,515,489 22.3 4,332,218 3,087,871 5,780,420 23.5 4,232,348 3,691,672 2,780,420 23.5 4,232,348 3,691,672 2,729,163 23.2 5,705,948 3,699,927 3,693,764 20.3 5,705,948 3,699,927 3,693,769 25.2 5,705,948 3,699,927 3,693,769 25.2 5,705,948 3,699,927 3,269,768 25.2 5,705,948 3,699,927 3,269,768 25.2 5,705,948 3,699,927 3,269,768 25.2 5,705,948 3,699,927 3,269,768 25.2 5,705,948 3,699,927 2,728,367 140.2 26.2 5,705,948 3,699,927 3,269,768 25.2 5,705,948 3,699,927 3,269,768 25.2 5,705,948 3,699,927 3,269,768 25.2 5,705,948 3,699,927 3,269,769 25.2 5,705,948 3,699,927 3,269,769 25.2 5,705,948 3,699,927 3,269,769 25.2 5,705,948 3,699,927 3,269,769 25.2 5,705,948 3,699,927 3,269,769 25.2 5,705,948 3,699,927 3,269,769 25.2 5,705,948 3,699,927 3,269,769 25.2 5,705,948 3,699,927 3,269,769 25.2 5,705,948 3,708,737 3,343,759 3,343,759 3,343,759 3,343,759 3,343,759 3,343,759 3,343,759 3,343,759 3,343,759 3,343,759 3,343,759 3,343,356 2,583,690 22.1 1,060,957 1,210,064 3,677,361 1,405 65.3 16.2 3,605,207 3,005,539 1,246,005 2,533,690 1,709,653 30.4 17.0 3,419,300 838,817 1,868,720 1,405,855 11.0 2,003,272 2,339,74 11.1 1,15 2,426,769 80.5 805,807 1,454,989 11.3 11.5 2,426,789 80.5 805,807 1,454,989 11.3 11.5 2,426,789 80.5 805,807 1,454,989 11.3 11.5 2,426,789 80.5 805,807 1,454,989 11.3 11.5 2,426,789 80.5 805,807 1,454,989 11.3 11.5 2,426,789 80.5 805,807 1,454,989 11.3 11.5 2,426,789 80.5 805,807 1,454,989 11.3 11.5 11.5 2,510,100 80.3 83,817 1,484,989 11.3 11.5 2,426,789 80.5 805,807 1,454,989 11.3 11.5 11.5 2,510,100 80.3 832,500 1,209,653 11.3 11.5 11.5 2,510,100 80.3 832,500 1,209,653 11.3 11.5 11.5 2,500,323 258,568 803,807 1,454,989 11.5 2,500,323 258,568 803,807 1,454,989 11.3 11.5 11.5 2,500,323 258,568 803,807 1,454,989 11.3 11.3 11.3 11.3 11.3 11.3 11.3 11. | oduction | | | - | re l | ls) Powder | | Oil Production by Region (barrels) | oy Region (bar | rels) | | Powder | |
|--|--|------------|------------------|--------|--------------------|---------------|-------|------------------------------------|----------------|-----------|--------------------|--------------|------------|
| 12.6 5.214,926 1.896,630 2.160,479 6.382,391 1.65 5.684,373 2.586,474 2.600,145 6.382,391 1.65 5.684,375 2.864,471 1.480,124 1.65 2.687,638 2.901,145 6.302,634 1.65 4.302,243 4.302,243 2.201,445 6.302,643 1.65 4.302,243 4.302,243 4.302,243 4.302,243 4.302,243 4.302,243 4.302,243 4.302,243 4.302,243 4.302,244 | North South Central Willi Real Central Ba | Central | | Willia | Williston Basin | River | STATE | North | South | Central | Williston Basin | River | TOTAL |
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| 19.4 5,632,616 2,867,658 2,301,145 16,320,343 19.4 3,432,218 3,037,324 4,515,489 16,487,946 21.1 22.3 4,332,218 3,037,873 4,515,489 16,487,946 22.3 4,332,218 3,037,877 5,780,420 1,039,406 23.5 4,250,510 3,383,587 5,320,103 18,784,386 23.5 4,250,510 3,383,587 3,590,430 19,005,066 23.5 4,530,510 3,383,587 3,590,430 19,005,066 23.5 5,705,948 3,841,572 2,728,373 1,712,77 24.5 25.5 2,729,476 2,729,346 2,710,134 2,1285,732 25.6 6,788,280 3,381,132 2,710,134 2,1285,732 25.7 3,233 181,132 2,728,130 1,704,134 18,396,618 13,248,737 25.9 3,23 7,680,831 2,739,346 2,710,134 2,1285,732 25.9 3,23 7,289,826 2,739,346 2,711,445 18,396,618 13,248,737 25.0 3,011 7,229,476 2,739,346 2,011,445 18,396,618 13,248,737 25.1 7,257,966 2,739,346 2,011,445 18,396,618 13,248,737 25.2 2,57,329,487 2,729,346 2,111,44 7,442,739 25.2 2,739,4826 1,742,749 2,117,241 7,442,739 25.2 3,573,299 1,722,794 2,117,241 1,726,59 25.2 3,573,299 1,722,794 2,117,241 1,726,59 25.3 3,532,299 1,729,724 1,318,79 3,249,56 1,339,229 25.4 3,573,299 2,210 3,673,29 3,243,56 1,339,229 25.5 3,573,299 2,210 3,673,29 3,243,56 1,339,142 25.6 3,573,299 2,210 3,673,29 3,243,56 1,339,142 25.6 3,573,299 3,243,56 1,310,037 25.6 3,573,299 3,243,56 1,310,037 25.6 3,573,299 3,243,56 1,310,037 25.6 3,573,299 3,243,56 1,310,037 25.6 3,573,299 3,243,56 1,310,037 25.6 3,573,299 3,243,56 1,310,037 25.6 3,573,299 3,243,56 1,310,037 25.6 3,573,299 3,243,56 1,329,47 25.7 3,573,299 3,243,56 1,323,399 25.8 3,532,299 3,243,56 1,323,399 25.8 3,532,299 3,233,399 3,233,399 25.8 3,532,299 3,233,399 3,233,399 25.8 3,532,299 3,233,399 3,233,399 25.8 3,532,299 3,233 | 735 334 1 | 33.4 | 4 | 102 | r. | | 16.5 | 5.083.953 | 2.585.437 | 2.610.047 | 11.480.124 | | 21.759.561 |
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| 22.3 4,332,218 3,097,871 5,769,420 17,099,406 4,211,017 2,895,587 5,375,524 17,431,916 23.5 4,223,304 3,891,587 3,950,490 19,005,066 23.5 4,530,510 3,383,587 3,950,490 19,005,066 23.5 5,705,948 3,969,927 3,929,708 19,005,066 23.5 5,705,948 3,969,927 2,229,340 19,005,066 23.5 5,705,948 3,969,927 2,229,491 19,91,922 23.5 5,705,948 3,985,272 2,710,94 21,285,732 1,571,777 13,005,005 27.5 5,706,948 3,985,272 2,728,357 19,390,518 13,244,374 2,201,445 18,396,618 13,244,374 110,33 2,33 1,571,475 18,390,618 13,244,374 110,33 2,301 17,257,966 2,739,346 2,710,144 21,285,732 1,571,106 65.3 29.6 6,46,908 1,742,749 2,817,404 19,390,52 16,574,472 10,03 1,742,749 2,817,404 19,390,52 16,574,472 10,03 1,742,749 2,817,404 19,390,52 16,574,472 10,03 1,742,749 2,817,404 19,392,59 1,890,04 1,742,749 2,817,404 19,392,59 1,449,598 1,449,5 | 123.7 46.5 | 46.5 | 22 | 99.3 | | | 21.1 | 4,307,739 | 4,514,034 | 4,515,489 | 16,497,964 | | 29,835,226 |
| 25.0 4,211,017 2,895,587 6,387,524 17,431,916 23.1 4,222,304 3,851,672 5,279,163 18,264,388 23.2 5,705,948 3,699,27 3,269,768 17,971,855 25.2 5,705,948 3,699,27 3,269,768 17,971,855 27.6 5,788,280 3,181,132 2,876,47 2,1285,733 1,671,277 27.6 5,83,493 2,885,272 2,700,194 21,285,733 1,671,277 28.1 6,883,493 2,885,272 2,728,357 19,390,652 16,572,472 91.4 36.1 7,557,66 2,738,346 1,915,277 18,101,47 7,843,259 50.9 30.1 7,522,476 2,728,346 1,915,273 18,101,47 7,843,259 50.9 30.1 7,294,332 1,422,528 3,334,759 14,393,289 6,807,439 100.2 26.2 4,551,324 1,318,779 3,944,426,389 14,939,292 14,393,666 50.4 31.7 4,200,957 1,200,695 1,462,605 14,496,399 1,293,42 4,600,659 117.6 23.5 3,671,322 1,095,737 3,343,556 15,103,853 7,252,869 22.1 16.9 3,560,43 900,596 2,583,690 19,954,159 3,753,760 22.1 16.9 3,600,43 900,596 2,583,690 19,954,159 3,753,760 22.1 16.9 3,493,900 13,793,89 17,793,142 4,900,390 22.1 16.9 3,493,900 1,709,155 11,739,142 4,960,695 2,993,47 22.1 16.9 3,493,900 1,709,150 17,739,142 4,960,696 1,134,47 22.2 1,42,43 1,42,43 1,42,43 1,43,44 1,43,44 1,43,44 1,43,44 1,43,44 1,43,44 1,43,44 1,43,44 1,43,44 1,43,44 1,43,44 1,44,44 | 4.2 88.1 52.3 93.9 | 52.3 | က | 93.9 | | | 22.3 | 4,332,218 | 3,087,871 | 5,780,420 | 17,039,406 | | 30,239,915 |
| 23.5 4,252,304 3,81,672 5,29,163 18,24,368 23.2 4,505,190 19,005,066 6,826,261 3,595,490 19,005,066 25.2 6,826,261 3,597,647 2,849,923 19,005,066 25.2 6,826,261 3,597,647 2,849,923 19,005,066 27.6 281.2 5,798,302 2,778,327 19,205,733 1,671,277 188.0 390.1 7,557,966 2,739,346 2,701,144 18,396,618 13,248,737 57.9 30.1 7,557,966 2,739,346 2,011,445 18,396,618 13,248,737 50.9 30.1 7,557,966 2,739,346 2,011,445 18,396,618 13,248,737 50.9 30.1 7,557,966 2,739,346 2,011,445 18,396,618 13,248,737 50.0 30.1 5,646,908 1,742,749 2,817,042,705 8,111,169 50.2 20.0 4,551,324 1,241,426 18,310,147 1,841,259 10.0 30.0 3,441,356 1,449 | 4.7 97.9 53.8 89.3 | 53.8 | 80 | 89.3 | | | 25.0 | 4,211,017 | 2,895,587 | 6,367,524 | 17,431,916 | | 30,906,044 |
| 23.2 4,530,510 3,383,587 3,950,490 19,005,066 25.2 5,705,948 3,699,927 3,269,768 1,7971,865 25.6 7,581,202 3,392,892 2,710,194 21,285,732 27.6 7,991,302 3,392,893 2,710,194 21,285,732 138.0 39.0 6,883,493 2,885,727 2,728,357 19,390,652 16,772,472 91.4 36.1 7,282,476 2,738,375 18,110,147 7,843,259 57.9 32.3 7,680,831 2,329,187 1,915,273 18,110,147 7,843,259 50.9 30.1 7,292,476 2,028,394 1,7042,703 8,181,598 110.3 30.5 5,464,319 1,422,528 3,334,759 14,399,652 1,105,871 140.2 26.2 4,551,324 1,318,779 3,954,024 1,312,698 140.2 27.1 4,060,957 1,210,064 3,677,361 14,621,636 9,110,037 140.2 26.2 4,551,324 1,318,779 3,938,967 14,312,686 8,706,862 140.2 26.2 4,551,324 1,318,779 3,938,967 14,312,686 8,706,862 140.2 26.2 4,551,324 1,318,779 3,938,967 14,312,686 8,706,862 140.2 26.2 3,671,332 1,246,005 4,063,897 14,496,390 8,702,749 140.2 26.2 3,671,332 1,005,405 2,612,091 17,739,142 4,660,686 22.1 3,607,339 1,343,390 88,817 1,466,895 21,449,415 2,383,476 3,671,330 8,607,439 10,555 2,583,600 19,554,159 3,759,760 3,413,300 88,817 1,469,895 21,494,494 1,724,433 14.1 3,040,941 827,229 1,447,855 20,877,541 1,434,374 14.1 11.5 2,425,733 1684,739 17,299,238 878,887 14.2 11.0 11.2 2,425,733 1684,739 17,299,238 17,399,47 15.2 11.0 2,425,739 1,599,66 19,520,103 1,314,374 15.2 11.0 2,425,739 1,599,66 19,520,103 1,314,374 16.9 12.2 2,432,506 805,807 1,424,399 15,747,075 90,965 11.2 11.1 2,425,733 1698,537 1,644,999 15,747,075 90,965 11.2 11.1 1,783,331 698,537 1,040,127 12,877,305 116,524 11.1 1,783,331 698,537 1,040,127 12,877,305 116,524 11.2 1,739,432 528 825,608 12,272,200 110,147 11.3 1,789,331 698,537 1,040,127 12,877,305 116,524 11.3 1,726,234 807,342 15,343,395,393 236,190 11.3 1,739,432 15,344,399,293 236,190 11.3 1,739,432 15,344,399,393 236,190 11.3 1,739,432 15,344,399,393 236,190 11.3 1,739,432 16,343,393 236,190 11.3 1,739,432 16,339,393 236,190 11.3 1,739,432 16,339,393 236,190 11.3 1,739,432 16,339,393 236,190 11.3 1,739,432 16,339,393 236,390 239,390,390,390,390,390,390,390,390,390,3 | 4.5 119.9 43.4 76.3 | 43.4 | 4 | 76.3 | | | 23.5 | 4,252,304 | 3,851,672 | 5,279,163 | 18,264,368 | | 31,647,507 |
| 25.2 5,705,948 3,699,927 3,269,768 17,971,855 23.6 6,826,261 3,575,474 2,849,923 1,571,277 70.6 28.2 6,758,280 3,181,132 2,875,604 20,475,733 1,571,277 18.0 39.0 6,883,493 2,875,604 20,475,733 1,571,277 57.9 30.3 1,587,346 2,101,445 1,8396,618 13,243,259 50.9 30.1 7,527,966 2,279,137 1,915,273 18,110,177 7,843,259 50.9 30.1 7,292,476 2,028,304 2,274,124 17,042,703 5,961,116 65.3 2,966 6,646,308 1,422,528 1,318,779 3,234,509 14,332,50 10.3 2,274,124 2,274,124 17,042,703 5,961,116 10.3 2,264,319 1,422,528 1,334,526 16,117,126 8,705,866 40.0 3,536,226 1,422,523 18,117,485 18,396,187 1,422,249 2,817,327 1,674,437 10.3 2, | | 34.8 | 80 | 74.4 | | | 23.2 | 4,530,510 | 3,383,587 | 3,950,490 | 19,005,066 | | 30,869,653 |
| 23.6 6,826,261 3,597,647 2,849,923 19,504,287 70.6 22.6 7,991,302 3,322,890 2,710,194 21,285,732 1671,277 188.0 39.0 6,883,489 2,710,194 2,1285,732 1671,277 188.0 39.0 6,883,489 2,710,1445 18,396,618 13,248,737 57.9 39.0 2,881,489 2,710,1445 18,396,618 13,248,737 50.9 36.1 7,557,966 2,729,346 2,011,445 18,396,618 13,248,737 50.9 36.4 31.7 1,425,749 1,429,962 1,425,749 1,429,259 3,431,741 3,431,744 1,431,268 1,104,371 3,431,569 1,104,371 3,431,569 1,104,371 3,481,569 1,104,371 3,481,569 1,104,371,773 3,411,598 3,104,374 3,481,569 3,110,037 3,111,600 3,411,500 3,411,500 3,411,500 3,411,500 3,411,500 3,411,500 3,411,500 3,411,500 3,411,500 3,411,500 3,411,500 3,411,500 | 115.1 | 28.8 | 80 | 65.7 | | | 25.2 | 5,705,948 | 3,699,927 | 3,269,768 | 17,971,855 | | 30,647,498 |
| 27.6 7,991,302 3,392,890 2,710,194 21,285,732 1,671,277 28.2 6,788,280 3,181,132 2,872,604 20,475,733 1,671,277 39.0 6,883,493 2,885,272 2,728,357 1,930,652 1,672,472 36.1 7,557,966 2,739,346 2,011,445 18,396,618 13,248,737 30.1 7,580,81 2,223,187 1,042,703 5,961,116 13,248,737 30.1 7,292,476 2,028,304 2,274,124 17,042,703 5,961,116 29.6 6,646,908 1,742,749 2,817,045 16,963,807 1,811,518 30.1 1,515,688 3,228,967 15,739,922 3,818,159 8,181,598 30.5 1,446,005 4,063,897 14,496,380 8,181,598 8,181,598 20.5 1,246,005 4,063,897 14,496,380 8,074,325 1,10,037 21.1 2,222,181 3,234,566 15,739,142 1,769,380 8,180,743 21.1 3,660,043 806,366 1,46 | | 25.5 | Ω. | 70.9 | | | 23.6 | 6,826,261 | 3,597,647 | 2,849,923 | 19,504,287 | | 32,778,118 |
| 28.2 6,758,280 3,181,132 2,872,604 20,475,733 1,671,277 39.0 6,883,493 2,885,272 2,728,357 19,390,662 16,572,472 36.1 7,557,966 2,739,346 2,011,445 18,396,618 13,248,737 36.1 7,292,476 2,729,304 2,274,124 17,042,701 6,335,666 30.1 7,292,476 2,028,304 2,817,045 16,317,71 6,335,666 31.7 5,948,826 1,742,749 2,817,045 16,361,771 6,335,666 26.2 4,551,324 1,318,749 2,817,045 16,393,299 1,811,598 30.5 5,464,319 1,422,528 3,347,759 14,396,389 8,710,328 26.2 4,060,957 1,210,064 3,677,361 14,621,635 9,110,037 27.1 4,060,957 1,210,064 3,677,361 14,496,80 8,077,439 26.2 1,060,957 1,210,064 3,677,361 14,496,30 9,110,037 27.1 4,060,986 1,131,798 3 | 87.7 | 24.7 | | 73.6 | | | 27.6 | 7,991,302 | 3,392,890 | 2,710,194 | 21,285,732 | | 35,380,118 |
| 39.0 6,883,493 2,885,272 2,728,357 19,390,652 16,572,472 36.1 7,557,966 2,739,346 2,011,445 18,396,618 13,248,737 32.3 7,680,831 2,028,304 2,274,124 16,477 5,396,618 30.1 6,646,908 1,742,749 2,817,045 16,361,771 6,335,666 31.7 5,948,826 1,515,088 3,238,967 15,735,703 8,181,598 30.5 5,464,319 1,432,528 3,334,759 14,493,222 9,383,064 26.2 4,551,324 1,318,779 3,646,244 14,419,398 8,007,361 27.1 4,060,957 1,210,064 3,677,361 14,496,386 9,100,37 22.9 3,576,207 3,406,366 1,496,895 1,749,493 3,753,760 22.9 3,680,043 806,366 1,496,895 2,1934,761 1,744,433 22.9 3,680,043 806,366 1,496,895 2,1934,761 1,744,433 22.9 3,680,043 806,389 2,1934,761 | 8.8 90.7 27.5 69.9 | 27.5 | | 6.69 | | 70.6 | 28.2 | 6,758,280 | 3,181,132 | 2,872,604 | 20,475,733 | 1,671,277 | 34,959,026 |
| 36.1 7,557,966 2,739,346 2,011,445 18,396,618 13,248,737 32.3 7,680,831 2,329,187 1,915,273 18,110,147 7,843,259 30.1 7,292,476 2,028,304 2,274,124 17,042,703 5,961,116 29.6 6,646,908 1,742,749 2,817,045 17,735,703 8,181,598 30.5 5,464,319 1,432,528 3,334,759 14,939,292 9,383,064 26.2 4,551,324 1,318,779 3,924,024 14,496,380 8,007,439 27.1 4,200,553 1,246,005 4,063,897 14,496,380 8,007,439 27.2 4,551,324 1,318,779 3,934,56 14,496,380 8,007,439 28.2 3,576,322 1,131,798 3,029,397 16,446,383 7,22,86 29.2 3,586,043 806,366 1,467,855 2,646,576 5,713,032 21.0 3,692,130 19,554,159 1,7449,415 3,769,769 22.0 3,680,043 806,386 1,753,142 4,660, | 79.6 26.4 | 26.4 | _ | 67.6 | | 138.0 | 39.0 | 6,883,493 | 2,885,272 | 2,728,357 | 19,390,652 | 16,572,472 | 48,460,246 |
| 32.3 7,680,831 2,329,187 1,915,273 18,110,147 7,843,259 30.1 7,292,476 2,028,304 2,274,124 17,042,703 5,961,116 29.6 6,646,308 1,742,749 2,817,045 16,361,771 6,335,666 31.7 5,948,826 1,515,088 3,234,759 14,995,329 3,83,064 26.2 4,561,324 1,318,728 3,324,759 14,995,380 6,807,439 26.2 4,060,957 1,210,064 3,677,361 14,621,635 9,110,037 26.2 4,060,957 1,210,064 3,677,361 14,621,635 9,110,037 26.2 3,671,322 1,095,737 3,343,566 15,103,853 7,252,869 22.0 3,536,296 1,131,798 3,029,397 16,24,657 6,713,032 21.1 3,516,807 1,055,105 2,612,091 17,739,142 4,660,659 21.0 3,680,043 806,366 1,496,895 21,934,760 2,999,247 14.1 3,020,799 10,595 1,709,653 21,449,415 2,383,476 16.0 3,491,300 838,817 1,868,780 2,997,9087 1,744,433 13.2 2,779,524 884,954 1,684,853 17,089,238 878,887 12.5 2,488,169 773,372 1,544,989 15,476,534 686,228 11.4 2,003,272 73,365 1,247,075 2,62,11 11.5 2,425,769 805,807 1,454,089 15,476,534 686,228 11.9 1,783,331 698,537 1,040,127 12,877,305 126,524 11.9 1,783,331 698,537 1,040,127 12,877,305 126,597 15.2 1,691,825 603,422 991,74 12,667,200 180,142 15.2 1,691,825 603,422 991,74 12,667,200 180,142 15.2 1,691,825 603,422 991,74 12,667,201 180,142 15.2 1,692,337 1,740,101 657,135 955,626 12,636,589 17,605,891 15.2 1,690,323 582,568 12,890,891 17,085,581 17,040,187 17,0592 11,0592 | 69.5 | 22.6 | 9 | 66.4 | | 91.4 | 36.1 | 7.557,966 | 2.739.346 | 2,011,445 | 18,396,618 | 13,248,737 | 43,954,112 |
| 30.1 7,292,476 2,028,304 2,274,124 17,042,703 5,961,116 29.6 6,646,908 1,742,749 2,817,045 16,361,771 6,335,666 31.7 5,948,826 1,515,088 3,238,967 15,735,703 8,181,598 30.5 5,464,319 1,432,528 3,334,759 14,393,292 9,383,064 2,571,322 4,200,539 1,246,005 4,561,387 14,496,380 8,807,439 26.2 4,551,324 1,318,779 3,954,024 14,312,685 8,706,862 27.1 4,200,537 1,210,064 3,677,361 14,621,635 9,110,037 23.5 3,671,322 1,995,737 3,343,566 15,103,853 7,252,869 27.1 1,317,798 3,029,397 16,546,576 5,713,032 21.1 3,516,807 1,055,105 2,612,091 17,739,142 4,660,659 21.1 3,508,130 1,055,105 2,612,091 17,739,142 4,660,659 21.0 3,680,043 806,366 1,496,895 21,934,760 2,999,247 14.1 3,040,941 827,229 1,447,551 18,319,149 1,069,179 12.2 2,408,169 772,312 1,644,989 15,476,134,374 14.1 3,040,941 827,229 1,847,551 18,319,149 1,069,179 12.2 2,426,789 805,807 1,454,989 15,476,134,374 1,684,853 17,089,238 878,887 11.6 2,432,506 805,807 1,454,308 1,364,403 1,364,403 1,364,403 1,364,403 1,364,403 1,364,403 1,364,403 1,364,403 1,364,403 1,364,403 1,364,403 1,364,403 1,364,403 1,364,403 1,364,406 14,380,288 878,887 11.6 2,432,506 805,807 1,454,066 14,380,288 878,881 11.6 2,003,272 733,965 955,703 12,747,075 90,965 11.9 1,749,333 1 698,537 1,040,127 12,877,305 126,524 15.0 1,740,101 657,135 955,626 12,696,542 125,797 15.0 1,740,101 657,135 955,626 12,696,542 125,797 15.0 1,740,101 657,135 955,626 12,696,542 125,797 15.0 1,740,101 657,135 955,628 12,372,857 207,550 15.0 1,409,42 15.2 1,509,323 582,568 828,028 12,373,868 170,529 174,059 210,509 170,592 11.5 1,502,304 605,333 725,688 125,873,808 170,559 170,592 170, | 26.2 | 26.2 | 2 | 66.8 | | 57.9 | 32.3 | 7.680,831 | 2.329,187 | 1,915,273 | 18,110,147 | 7,843,259 | 37,878,697 |
| 29.6 6,646,908 1,742,749 2,817,045 16,361,771 6,335,666 31.7 5,948,826 1,515,088 3,238,967 15,735,703 8,181,598 30.5 5,464,319 1,432,528 3,334,759 14,939,292 9,383,004 26.2 4,551,324 1,318,779 3,936,024 14,312,685 8,706,862 27.1 4,200,957 1,240,006 4,063,387 14,496,380 8,807,439 26.2 3,536,296 1,095,737 3,435,56 5,713,037 22.28 22.9 3,536,207 1,055,105 2,612,091 17,739,142 4,660,659 21.1 3,516,807 1,055,105 2,612,091 17,739,142 4,660,659 21.1 3,516,807 1,055,105 2,612,091 17,739,142 4,660,659 21.1 3,516,807 1,055,105 2,612,091 17,739,142 4,660,659 21.1 3,600,43 800,386 1,496,885 21,394,760 2,847,618 21.0 3,600,43 800,386 1,467,855 <td>57.9 29.4</td> <td>29.4</td> <td>· - 1</td> <td>62.4</td> <td></td> <td>50.9</td> <td>30.1</td> <td>7,292,476</td> <td>2.028.304</td> <td>2.274.124</td> <td>17.042.703</td> <td>5,961,116</td> <td>34.598.723</td> | 57.9 29.4 | 29.4 | · - 1 | 62.4 | | 50.9 | 30.1 | 7,292,476 | 2.028.304 | 2.274.124 | 17.042.703 | 5,961,116 | 34.598.723 |
| 3.7.7 5,948,826 1,515,088 3,238,967 15,735,703 8,181,598 30.5 5,464,319 1,432,528 3,334,759 14,939,292 9,383,064 26.2 4,551,324 1,318,779 3,954,024 14,312,685 8,706,862 27.1 4,200,539 1,246,005 4,063,897 14,496,380 8,074,439 28.2 4,060,957 1,210,064 3,677,361 14,621,635 9,110,037 28.2 3,671,322 1,246,005 4,063,897 14,496,380 8,074,439 28.2 3,671,322 1,210,064 3,673,356 15,163,852 9,110,037 29.3 3,516,807 1,655,105 2,612,001 17,739,142 4,660,659 21.0 3,682,130 800,366 1,496,895 21,934,760 2,939,247 16.0 3,419,300 82,996 1,709,653 21,449,415 2,733,476 16.0 3,419,300 838,817 1,868,786 21,934,760 2,939,476 16.0 3,419,300 820,040 1,709,65 | 57.4 34.4 | 34.4 | | 63.3 | | 65.3 | 29 6 | | 1 742 749 | 2 817 045 | 16 361 771 | 6 335 666 | 33 904 139 |
| 26.2 4,551,324 1,318,779 3,944,759 14,496,380 8,807,439 26.2 4,206,957 1,210,064 3,677,361 14,621,635 9,110,037 3 26.2 4,060,957 1,210,064 3,677,361 14,621,635 9,110,037 3 26.2 4,060,957 1,210,064 3,677,361 14,621,635 9,110,037 3 26.2 4,060,957 1,210,064 3,677,361 14,621,635 9,110,037 3 26.2 3,536,296 11,33,798 3,029,397 16,546,576 5,713,032 2 21.0 3,516,807 1,055,105 2,612,091 17,739,142 4,660,659 2 21.0 3,605,207 910,595 2,583,690 19,954,159 3,759,760 3 9,605,130 17,739,142 1,433,476 3 1,069,179 2 1,069,130 17,739,142 1,069,179 2 1,069,179 1,060,179 1,060,179 1,060,179 1,060,179 1,060,179 1,060,179 1,060,179 1,069,189 1,069,18 | 500 362 | 36.0 | . ^ | 8.09 | | 00.0 | 24.7 | | 1 515 088 | 3 238 967 | 15 735 703 | 8 181 598 | 34 620 182 |
| 26.2 4,551,324 1,318,779 3,954,024 14,312,685 8,706,862 3 27.1 4,200,539 1,246,005 4,663,897 14,496,380 8,807,437 3 26.2 4,060,957 1,210,064 3,657,361 14,621,635 9,110,037 3 26.2 4,060,957 1,210,064 3,677,361 14,621,635 9,110,037 3 26.2 3,671,322 1,095,737 3,343,556 15,103,853 7,252,869 3 27.1 3,516,807 1,055,105 2,612,091 17,739,142 4,660,659 2 21.0 3,680,043 806,366 1,496,895 21,934,760 2,999,247 3 3,682,130 790,150 1,709,653 21,449,415 2,383,476 3,419,300 1,709,653 21,449,415 2,383,476 3,419,300 1,709,653 21,449,415 2,383,476 3,419,300 1,709,653 21,449,415 2,383,476 3,419,300 1,709,653 11,449,415 2,739,64 1,868,780 21,979,087 1,744,433 2,720,769 1,252,118 2,387,266 19,520,103 1,704,433 2,722,747 18,20,20,49 16,45,646,654 19,69,749 1,684,887 1,7089,238 878,887 2,72,747 1,739,724 884,594 1,684,893 15,476,534 686,228 2,725,71 1,20,24,76 1,20,372 1,244,393 12,747,075 1,244,33 2,726,739 1,227,475 13,637,695 355,139 1,22 2,73,266 10,955,51 13,110,882 272,517 1,109,72,747 1,739,324 1,269,323 1,20,323 | 30.0 | 2.00.0 | | 100.0 | | 1.00.1 | | 3,340,020 | 1,313,000 | 0,500,007 | 14,000,000 | 000,101,0 | 24,020,102 |
| 26.2 4,551,324 1,318,779 3,954,024 14,312,685 8,706,862 3 28.5 4,060,957 1,246,005 4,063,897 14,496,380 8,807,439 3 28.5 3,671,322 1,095,737 3,343,556 15,103,853 7,252,869 3,536,296 1,131,798 3,029,397 16,546,576 5,713,032 2 22.9 3,536,296 1,131,798 3,029,397 16,546,576 5,713,032 2 22.1 3,516,807 1,055,105 2,638,690 17,739,142 4,660,659 19,521,0 3,682,130 790,156 1,496,895 21,934,760 2,999,247 3 21.0 3,682,130 790,156 1,467,855 20,877,527 2,847,618 2 22.0 3,682,130 790,156 1,467,855 20,877,527 2,847,618 2 22.0 3,682,130 790,156 1,467,855 20,877,527 2,847,618 2 22.0 3,682,130 82,900 1,709,653 21,449,415 2,383,476 3 22.779,524 884,954 1,684,853 17,089,238 878,887 2 22.779,524 884,954 1,684,853 17,089,238 878,887 2 22.428,169 773,372 1,544,989 15,476,534 686,228 2 22.428,169 773,372 1,544,989 15,476,534 686,228 2 22.428,783 832,580 1,227,475 13,637,695 355,139 1 22.729,524 1,684,853 17,089,238 878,887 1 22.729,524 1,684,853 17,089,238 878,887 1 22.428,783 832,580 1,227,475 13,637,695 355,139 1 22.428,783 832,580 1,227,475 13,637,695 126,524 1 22.43,943 772,668 10,995,551 13,110,882 272,517 1 22.630,327 698,537 10,40,127 12,657,305 126,524 1 22.139,825 686,537 10,40,127 12,659,542 125,797 1 22.139,842 686,734 15,288,18 12,532,858 15,5437 12,543,741 12,569,132 11,59 1,545,508 696,731 725,843 12,558 11,59 1,545,508 696,731 725,843 12,532,868 11,59 1,545,508 650,982 13,373,868 17,0592 11 | 45.6 34.2 | 34.2 | N. (| 57.4 | | 110.3 | 30.5 | 5,464,319 | 1,432,528 | 3,334,739 | 14,939,292 | 9,363,064 | 34,003,902 |
| 27.1 4,200,539 1,246,005 4,063,897 14,496,380 8,807,439 3 28.2 4,060,957 1,210,064 3,677,361 14,621,635 9,110,037 3 28.2 3,671,322 1,095,737 3,343,556 15,103,853 7,252,869 3 22.9 3,536,296 1,131,798 3,029,397 16,546,576 5,713,032 2 21.0 3,605,207 910,595 2,612,091 17,739,142 4,660,659 2 21.0 3,680,043 802,366 1,496,895 21,934,760 2,999,247 3 24.0 3,708,185 829,090 1,709,653 21,449,415 2,383,476 3 24.10 3,708,185 829,090 1,709,653 21,449,415 2,383,476 3 24.10 3,040,941 827,229 1,847,551 18,319,149 1,069,179 2 12.0 2,432,506 805,807 1,454,089 15,476,534 686,228 2 12.0 2,432,506 805,807 1,454,089 15,476,534 686,228 1 12.0 2,432,506 805,807 1,454,086 14,592,497 550,211 1 12.1 2,426,783 832,580 1,227,475 13,617,892 355,139 1 11.5 2,426,783 832,580 1,227,475 13,617,892 355,139 1 11.0 2,003,272 773,372 1,544,989 15,476,534 686,228 1 11.0 2,003,272 773,395 1,227,475 13,10,882 272,517 1 11.1 2,143,943 772,668 1,095,551 13,10,882 272,517 1 11.2 2,610,130 804,003 1,393,046 14,380,288 485,881 1 11.3 1,783,331 698,537 1,040,127 12,877,305 126,524 1 11.4 2,143,943 772,668 1,095,551 13,10,882 236,190 1 15.0 1,590,323 898,537 1,040,127 12,877,305 126,524 1 16.0 1,590,323 826,638 13,385,593 236,190 1 15.0 1,590,323 828,082 13,373,868 170,559 1 14.9 1,545,588 696,733 725,437 12,568,182 210,281 1 15.1 1,545,688 696,733 725,437 12,568,182 170,559 1 | 36.1 35.8 | 35.8 | _ | 53.4 | | 103.2 | 2.92 | 4,551,324 | 1,318,79 | 3,954,024 | 14,312,685 | 8,706,862 | 32,843,6/4 |
| 26.2 4,060,957 1,210,064 3,677,361 14,621,635 9,110,037 3 23.5 3,671,322 1,095,737 3,343,556 15,103,853 7,252,869 3 22.9 3,536,296 1,131,798 3,029,397 16,546,576 5,713,032 2 21.0 3,605,207 910,595 2,583,690 19,954,159 3,759,760 3 19.2 3,600,43 806,366 1,496,895 21,934,760 2,999,247 3 16.9 3,682,130 790,150 1,467,855 20,877,527 2,847,618 2 16.0 3,419,300 838,817 1,868,780 21,949,415 2,383,476 3 16.0 3,419,300 838,817 1,868,780 21,949,415 2,383,476 3 16.0 3,419,300 838,817 1,868,780 21,949,415 2,383,476 3 16.0 3,419,300 838,817 1,868,780 21,949,415 2,744,433 2 17.0 3,400,941 827,229 1,84 | 35.2 | 35.2 | Ω Ι | 53.8 | | 133.3 | 27.1 | 4,200,539 | 1,246,005 | 4,063,897 | 14,496,380 | 8,807,439 | 32,814,260 |
| 23.5 3,671,322 1,095,737 3,343,556 15,103,853 7,252,869 3 22.9 3,536,296 1,131,798 3,029,397 16,546,576 5,713,032 2 21.1 3,516,807 1,055,105 2,612,091 17,739,142 4,660,659 2 21.0 3,605,207 910,595 2,583,690 19,954,159 3,759,760 3 19.2 3,682,130 790,150 1,467,855 20,877,527 2,847,618 2 16.0 3,682,130 790,150 1,709,653 21,449,415 2,383,476 3 16.0 3,419,300 83,817 1,868,780 21,979,087 1,744,433 2 14.1 3,040,941 827,229 1,847,551 18,319,149 1,069,179 2 13.2 2,779,524 884,954 1,684,853 17,089,238 878,887 2 14.1 3,040,941 827,229 1,544,989 15,476,534 686,228 2 12.5 2,488,169 773,372 1,544,989 15,476,534 686,228 2 11.5 2,422,783 | 30.4 29.4 | 29.4 | 4 | 50.8 | | 140.2 | 26.2 | 4,060,957 | 1,210,064 | 3,677,361 | 14,621,635 | 9,110,037 | 32,680,054 |
| 22.9 3,536,296 1,131,798 3,029,397 16,546,576 5,713,032 2 21.0 3,605,207 910,595 2,583,690 19,954,159 3,759,760 3 19.2 3,680,043 806,366 1,496,895 21,934,760 2,999,247 3 16.9 3,682,130 790,150 1,467,855 20,877,527 2,847,618 2 14.2 3,708,185 829,090 1,709,653 21,449,415 2,383,476 3 14.2 3,220,769 722,118 2,387,266 19,520,103 1,314,374 2 14.2 3,220,769 722,118 2,387,266 19,520,103 1,314,374 2 14.2 3,220,769 722,118 2,387,266 19,520,103 1,314,374 2 14.1 3,040,941 827,229 1,847,551 18,319,149 1,069,179 2 12.5 2,488,169 773,372 1,544,989 15,476,534 686,228 2 12.6 2,432,506 805,807 1,454,066 14,380,288 485,881 1 12.6 2,426,783 832,580 1,227,475 13,637,695 355,139 1 11.5 2,426,783 832,580 1,227,475 13,610,882 272,577 1 11.0 2,003,272 73,965 10,207,475 12,677,305 126,524 1 11.1 1,783,331 698,537 1,040,127 12,877,305 126,524 1 15.2 1,590,323 882,568 828,028 13,385,593 236,190 1 15.6 1,590,323 882,568 828,028 13,385,593 236,190 1 15.6 1,502,304 607,414 638,415 12,372,857 17,659 1 15.7 1,419,842 656,668 650,382 13,373,868 170,559 1 | | 26.4 | 4 | 48.9 | | 117.6 | 23.5 | 3,671,322 | 1,095,737 | 3,343,556 | 15,103,853 | 7,252,869 | 30,467,337 |
| 21.1 3,516,807 1,055,105 2,612,091 17,739,142 4,660,659 2 21.0 3,605,207 910,595 2,583,690 19,954,159 3,759,760 3 19.2 3,680,043 806,366 1,496,895 21,934,760 2,999,247 3 16.9 3,682,130 790,150 1,467,855 20,877,527 2,847,618 2 17.0 3,708,185 829,090 1,709,653 21,449,415 2,383,476 3 16.0 3,419,300 838,817 1,868,780 21,979,087 1,744,433 2 14.2 3,220,769 722,118 2,387,266 19,520,103 1,314,374 2 14.1 3,040,941 827,229 1,847,551 18,319,149 1,069,179 2 13.2 2,779,524 884,954 1,684,853 17,089,238 8878,887 2 12.5 2,488,169 773,372 1,454,086 14,380,288 485,881 1 12.0 2,425,783 805,807 1,454,086< | | 24.4 | 4 | 51.2 | | 94.9 | 22.9 | 3,536,296 | 1,131,798 | 3,029,397 | 16,546,576 | 5,713,032 | 29,957,099 |
| 21.0 3,605,207 910,595 2,583,690 19,954,159 3,759,760 3 19.2 3,680,043 806,366 1,496,895 21,934,760 2,999,247 3 16.9 3,682,130 790,150 1,467,855 20,877,527 2,847,618 2 17.0 3,708,185 829,090 1,709,653 21,449,415 2,383,476 3 16.0 3,419,300 838,817 1,868,780 21,979,087 1,744,433 2 14.1 3,040,941 827,229 1,847,551 18,319,149 1,069,179 2 13.2 2,779,524 884,954 1,684,853 17,089,238 878,887 2 12.5 2,488,169 773,372 1,544,989 15,476,534 686,228 2 12.0 2,432,506 805,807 1,454,066 14,530,289 485,881 1 12.2 2,510,130 804,003 1,227,475 13,637,695 355,139 1 11.6 2,426,783 366,88 1,040,127 | 23.2 19.9 | 19.9 | 6 | 48.7 | | 86.0 | 21.1 | 3,516,807 | 1,055,105 | 2,612,091 | 17,739,142 | 4,660,659 | 29,583,804 |
| 19.2 3,680,043 806,366 1,496,895 21,934,760 2,999,247 3 16.9 3,682,130 790,150 1,467,855 20,877,527 2,847,618 2 17.0 3,708,185 829,090 1,709,653 21,449,415 2,383,476 3 16.0 3,419,300 838,817 1,868,780 21,979,087 1,744,433 2 14.1 3,040,941 827,229 1,847,551 18,319,149 1,069,179 2 13.2 2,779,524 884,954 1,684,853 17,089,238 878,887 2 12.5 2,488,169 773,372 1,544,989 15,476,534 686,228 2 12.5 2,488,169 773,372 1,544,989 15,476,534 686,228 1 12.5 2,426,783 804,003 1,393,046 14,380,288 485,881 1 11.0 2,103,130 804,003 1,227,475 13,10,882 272,517 1 11.1 2,143,943 772,668 1,095,551 | 18.9 | 20.0 | c | 50.6 | | 59.2 | 21.0 | 3,605,207 | 910.595 | 2.583.690 | 19,954,159 | 3,759,760 | 30,813,411 |
| 16.9 3,708,130 790,150 1,709,655 21,404,415 2,383,476 3,708,186 3,419,300 838,817 1,868,780 21,979,087 1,744,433 2 1,322,0769 722,118 2,387,266 19,520,103 1,314,374 2 1,3040,941 827,229 1,847,551 18,319,149 1,069,179 2 1,25 2,488,169 773,372 1,544,989 15,476,534 686,228 2 1,22 2,510,130 804,003 1,393,046 14,380,288 485,881 1 1,2 2,426,783 832,580 1,227,475 13,637,695 355,139 1 1,0 2,003,272 773,965 905,703 12,777,305 126,524 11,19 1,783,331 698,537 1,040,127 12,877,305 126,524 11,19 1,783,331 698,537 1,040,127 12,877,305 126,524 11,19 1,783,331 698,537 1,040,127 12,877,305 126,524 11,19 1,783,331 698,537 1,040,127 12,877,305 126,524 11,19 1,783,331 698,537 1,040,127 12,877,305 126,524 11,19 1,783,331 698,537 1,040,127 12,877,305 126,524 11,19 1,593,333 582,568 13,385,593 236,190 11,19 1,545,508 696,733 725,437 12,568,182 170,592 11,19 1,545,508 656,688 650,982 13,373,868 170,5592 11,19 1,545,508 656,688 650,982 13,373,868 | 16.0 16.5 | 16.5 | ı. | 44.2 | | 38.8 | 19.2 | 3 680 043 | 806.366 | 1 496 895 | 21 934 760 | 2 999 247 | 30 917 311 |
| 17.0 3,708,135 720,130 1,407,133 20,077,257 2,047,1010 2,041,1300 829,090 1,709,653 21,449,415 2,383,476 3,419,300 828,817 1,709,653 21,449,415 2,383,476 3,429,041 827,229 1,847,551 18,319,149 1,069,179 2,320,769 273,422 1,847,551 18,319,149 1,069,179 2,428,169 773,372 1,544,989 15,476,534 686,228 2,428,169 805,807 1,454,066 14,592,497 550,211 1,22 2,426,783 832,580 1,227,475 13,695,881 1,14 2,143,943 772,668 1,095,551 13,110,882 272,517 1,10 1,783,331 698,537 1,040,127 12,877,305 126,524 1,15,331 698,537 1,040,127 12,877,305 126,524 1,15,331 698,537 1,040,127 12,877,305 126,524 1,15,331 698,537 1,040,127 12,877,305 126,524 1,15,691,825 603,422 991,714 12,667,200 180,142 1,15,691,825 603,422 991,714 12,667,200 180,142 1,15,691,825 603,422 991,714 12,667,200 180,142 1,15,691,825 603,422 991,714 12,667,807 207,560 1,15,61,61,62 1,502,304 607,414 638,415 12,372,857 207,560 1,14,19 1,545,508 696,733 725,437 12,568,182 170,592 1,170,592 1,170,592 1 | 0.5 | 0.5 | , , | 3.00 | | 0.00 F nc | 100 | | 700,000 | 1 467 955 | 20 1,202,12 | 0 0 4 7 6 18 | 20,516,280 |
| 17.0 3,708,185 829,090 1,709,653 21,449,415 2,383,476 3 16.0 3,419,300 838,817 1,868,780 21,979,087 1,744,433 2 14.2 3,220,769 722,118 2,387,266 19,520,103 1,314,374 2 13.2 2,779,524 884,954 1,684,853 17,089,238 878,887 2 12.5 2,488,169 773,372 1,544,989 15,476,534 686,228 2 12.0 2,432,506 805,807 1,454,066 14,530,288 485,881 1 12.2 2,426,783 832,580 1,227,475 13,637,695 355,111 1 11.5 2,426,783 832,580 1,227,475 13,607,895 355,139 1 11.0 2,003,272 733,965 1,040,127 12,477,075 90,965 1 11.0 1,783,331 698,537 1,040,127 12,677,305 126,524 1 126,524 1 15.2 1,590,323 582,5 | 14.4 14.0 | 0.4 | . | 0.8.0 | | 1.00 | | | 061,087 | 000,704,1 | 120,110,02 | 010,740,2 | 29,000,200 |
| 16.0 3,419,300 838,817 1,868,780 21,979,087 1,744,433 2 14.2 3,220,769 722,118 2,387,266 19,520,103 1,314,374 2 14.1 3,040,941 827,229 1,847,551 18,319,149 1,069,179 2 13.2 2,779,524 884,954 1,684,853 17,089,238 878,887 2 12.5 2,488,169 773,372 1,544,989 15,476,534 686,228 2 12.0 2,432,506 805,807 1,393,046 14,380,288 485,881 1 11.5 2,426,783 832,580 1,227,475 13,637,695 355,139 1 11.4 2,143,943 772,668 1,227,475 13,10,882 272,517 1 11.0 2,003,272 73,965 10,40,127 12,47,075 90,965 1 11.9 1,783,331 698,537 1,040,127 12,47,075 90,965 1 15.2 1,590,323 582,568 828,028 13,3 | 15.8 15.9 | 15.9 | o o | 37.9 | | 30.4 | | - • | 829,090 | 1,709,653 | 21,449,415 | 2,383,476 | 30,079,819 |
| 19.5 14.2 3,220,769 722,118 2,387,266 19,520,103 1,314,374 2 26.2 14.1 3,040,941 827,229 1,847,551 18,319,149 1,069,179 2 23.3 13.2 2,779,524 884,954 1,684,853 17,089,238 878,887 2 16.8 12.5 2,488,169 773,372 1,544,989 15,476,534 686,228 2 16.9 12.2 2,426,783 805,807 1,454,066 14,592,497 550,211 1 16.9 12.2 1,245,783 832,580 1,227,475 13,637,695 355,139 1 14.1 11.5 2,426,783 832,580 1,227,475 13,637,695 355,139 1 13.3 11.0 2,143,943 772,668 1,095,551 13,110,882 272,517 1 12.4 11.0 1,783,331 698,537 1,040,127 12,677,305 126,524 1 15.5 16.2 1,590,323 560,562 < | 12.3 | 12.3 | က | 39.1 | | 22.1 | 16.0 | | 838,817 | 1,868,780 | 21,979,087 | 1,744,433 | 29,850,417 |
| 26.2 14.1 3,040,941 827,229 1,847,551 18,319,149 1,069,179 2 23.3 13.2 2,779,524 884,954 1,684,853 17,089,238 878,887 2 16.8 12.5 2,488,169 773,372 1,544,989 15,476,534 686,228 2 16.9 12.2 2,432,506 805,807 1,454,066 14,592,497 550,211 1 16.9 12.2 2,510,130 804,003 1,393,046 14,380,288 485,881 1 14.1 11.5 2,426,783 832,580 1,227,475 13,637,695 355,139 1 13.3 11.4 2,143,943 772,668 1,095,551 13,110,882 272,517 1 12.4 11.9 1,783,331 698,537 1,040,127 12,477,075 90,965 1 12.5 15.3 1,740,101 657,135 955,626 12,696,524 126,579 1 12.0 1,501,323 582,668 828,028 13,385,593 236,190 1 11.9 15.6 1,545,508 | 24.7 | 14.4 | 4. | 35.4 | | 19.5 | 14.2 | • | 722,118 | 2,387,266 | 19,520,103 | 1,314,374 | 27,164,630 |
| 23.3 13.2 2,779,524 884,954 1,684,853 17,089,238 878,887 2 16.8 12.5 2,488,169 773,372 1,544,989 15,476,534 686,228 2 12.8 12.0 2,432,506 805,807 1,454,066 14,592,497 550,211 1 16.9 12.2 2,510,130 804,003 1,393,046 14,380,288 485,881 1 14.1 11.5 2,426,783 832,580 1,227,475 13,637,695 355,139 1 13.3 11.4 2,143,943 772,668 1,095,551 13,110,882 272,517 1 3.5 11.0 2,003,272 733,965 955,703 12,747,075 90,965 1 12.4 11.9 1,783,331 698,537 1,040,127 12,877,305 126,524 1 15.5 15.3 1,740,101 657,135 955,626 12,696,542 125,797 1 12.0 16.2 1,590,323 582,568 828,028 13,385,593 236,190 1 11.2 1,590,323 <t< td=""><td>2.9 17.4 13.9 35.1</td><td>13.9</td><td>6.</td><td>35.1</td><td></td><td>26.2</td><td>14.1</td><td>3,040,941</td><td>827,229</td><td>1,847,551</td><td>18,319,149</td><td>1,069,179</td><td>25,104,049</td></t<> | 2.9 17.4 13.9 35.1 | 13.9 | 6. | 35.1 | | 26.2 | 14.1 | 3,040,941 | 827,229 | 1,847,551 | 18,319,149 | 1,069,179 | 25,104,049 |
| 12.5 2,488,169 7773,372 1,544,989 15,476,534 686,228 2 12.0 2,432,506 805,807 1,454,066 14,592,497 550,211 1 12.2 2,510,130 804,003 1,393,046 14,380,288 485,881 1 11.4 2,143,943 772,668 1,095,551 13,110,882 272,517 1 11.0 2,003,272 733,965 955,703 12,747,075 90,965 1 11.9 1,783,331 698,537 1,040,127 12,877,305 126,524 1 15.2 1,591,825 603,422 991,714 12,667,200 180,142 1 15.6 1,502,304 607,414 638,415 12,372,857 207,560 1 14.9 1,545,508 650,982 13,373,868 170,592 1 170,592 1 | 18.9 13.0 | 13.0 | 0 | 32.6 | | 23.3 | 13.2 | | 884,954 | 1.684.853 | 17,089,238 | 878,887 | 23.317.456 |
| 12.0 2,732,705 805,807 1,757,705 1,437,705 1,105,705 1,1 | 162 128 | 12.8 | œ | 30.8 | | 16.8 | 12.5 | | 773 372 | 1 544 989 | 15 476 534 | 686 228 | 20,969,292 |
| 12.2 2,432,500 903,907 1,434,008 1,393,046 14,392,497 350,711 11.5 2,426,783 892,580 1,227,475 13,637,695 355,139 1 11.4 2,143,943 772,668 1,025,551 13,110,882 272,517 1 11.0 2,003,272 733,965 16,747,075 90,965 1 126,524 1 11.9 1,783,331 657,135 955,626 12,696,542 126,524 1 126,524 1 126,524 1 126,524 1 126,524 1 126,524 1 126,524 1 126,524 1 126,524 1 126,524 1 126,524 1 126,524 1 1 126,524 1 126,524 1 126,524 1 126,524 1 1 126,524 1 126,524 1 126,524 1 126,524 1 1 126,524 1 126,524 1 126,524 1 126,524 1 | 10.1 | i c | | 2000 | | 0 0 | | | 100,000 | 1 454 066 | 14 500 407 | EEO 211 | 10 025 007 |
| 12.2 2,510,130 804,003 1,393,046 14,380,288 485,881 1 11.5 2,426,783 832,580 1,227,475 13,637,695 355,139 1 11.0 2,033,272 733,965 955,703 12,747,075 90,965 1 11.0 1,783,331 698,537 1,040,127 12,877,305 126,524 1 15.3 1,740,101 657,135 955,626 12,696,542 125,797 1 16.2 1,691,825 603,422 991,714 12,667,200 180,142 1 16.2 1,590,323 582,568 828,028 13,385,593 236,190 1 15.6 1,502,304 607,414 638,415 12,372,857 207,560 1 14.9 1,545,508 696,733 725,437 12,568,182 210,281 1 15.2 1,419,842 656,668 650,982 13,373,868 170,592 1 | 10.4 | 0.2 | | 29.3 | | 0.7 | 0.71 | _ | 100,000 | 000,404,1 | 164,260,41 | 112,000 | 19,033,007 |
| 11.5 2,426,783 832,580 1,227,475 13,637,695 355,139 1 11.4 2,143,943 772,668 1,095,551 13,110,882 272,517 1 11.0 2,003,272 733,965 955,703 12,747,075 90,965 1 11.9 1,783,331 698,537 1,040,127 12,877,305 126,524 1 15.3 1,740,101 657,135 955,626 12,696,542 125,797 1 16.2 1,691,825 603,422 991,714 12,667,200 180,142 1 16.2 1,590,323 582,568 828,028 13,385,593 236,190 1 15.6 1,502,304 607,414 638,415 12,372,857 207,560 1 14.9 1,545,508 696,733 725,437 12,568,182 210,281 1 15.2 1,419,842 656,668 650,982 13,373,868 170,592 1 | 17.9 12.3 | 12.3 | w. | 29.4 | | 16.9 | 12.2 | • | 804,003 | 1,393,046 | 14,380,288 | 485,881 | 19,573,348 |
| 11.4 2,143,943 772,668 1,095,551 13,110,882 272,517 1 11.0 2,003,272 733,965 955,703 12,747,075 90,965 1 11.9 1,783,331 698,537 1,040,127 12,877,305 126,524 1 15.3 1,740,101 657,135 955,626 12,696,542 125,797 1 16.2 1,590,323 582,568 13,885,593 236,190 1 15.6 1,502,304 607,414 638,415 12,372,857 207,560 1 14.9 1,545,508 696,733 725,437 12,568,182 210,281 1 15.2 1,419,842 656,668 650,982 13,373,868 170,592 1 | 16.5 11.7 | 11.7 | .7 | 27.8 | | 14.1 | 11.5 | ., | 832,580 | 1,227,475 | 13,637,695 | 355,139 | 18,479,672 |
| 11.0 2,003,272 733,965 955,703 12,747,075 90,965 1 11.9 1,783,331 698,537 1,040,127 12,877,305 126,524 1 15.3 1,740,101 657,135 955,626 12,696,542 125,797 1 15.2 1,691,825 603,422 991,714 12,667,200 180,142 1 16.2 1,590,323 582,568 828,028 13,385,593 236,190 1 15.6 1,502,304 607,414 638,415 12,372,857 207,560 1 14.9 1,545,508 696,733 725,437 12,568,182 210,281 1 15.2 1,419,842 656,668 650,982 13,373,868 170,592 1 | 2.4 17.4 10.1 27.9 | 10.1 | - . | 27.9 | | 13.3 | 11.4 | | 772,668 | 1,095,551 | 13,110,882 | 272,517 | 17,395,561 |
| 11.9 1,783,331 698,537 1,040,127 12,877,305 126,524 15.3 1,740,101 657,135 955,626 12,696,542 125,797 1 15.2 1,691,825 603,422 991,714 12,667,200 180,142 1 16.2 1,590,323 582,568 828,028 13,385,593 236,190 1 15.6 1,502,304 607,414 638,415 12,372,857 207,560 1 14.9 1,545,508 696,733 725,437 12,568,182 210,281 1 15.2 1,419,842 656,668 650,982 13,373,868 170,592 1 | 14.8 9.6 | 9.6 | 9 | 26.6 | | 3.5 | 11.0 | | 733,965 | 955,703 | 12,747,075 | 90,965 | 16,530,980 |
| 15.3 1,740,101 657,135 955,626 12,696,542 125,797 1 15.2 1,691,825 603,422 991,714 12,667,200 180,142 1 16.2 1,590,323 582,588 828,028 13,385,593 236,190 1 15.6 1,502,304 607,414 638,415 12,372,857 207,560 1 14.9 1,545,508 696,733 725,437 12,568,182 210,281 1 15.2 1,419,842 656,668 650,982 13,373,868 170,592 1 | 145 114 | 11.4 | 4 | 26.9 | | 12.4 | • | | 608 537 | 1 040 127 | 12 877 305 | 126 524 | 16 525 824 |
| 15.3 1,740,101 657,135 955,626 12,696,542 125,797 1 15.2 1,691,825 603,422 991,714 12,667,200 180,142 1 16.2 1,590,323 582,568 828,028 13,385,593 236,190 1 15.6 1,502,304 607,414 638,415 12,372,857 207,560 1 14.9 1,545,508 696,733 725,437 12,568,182 210,281 1 15.2 1,419,842 656,668 650,982 13,373,868 170,592 1 | 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | † † - c | ţ. | 20.0 | | † r | - ' | _ ` | 200,000 | 77,040,1 | 000,700,00 | 100,021 | 10,020,024 |
| 12.0 15.2 1,691,825 603,422 991,714 12,667,200 180,142 1 13.5 16.2 1,590,323 582,568 828,028 13,385,593 236,190 1 11.9 15.6 1,502,304 607,414 638,415 12,372,857 207,560 1 11.2 14.9 1,545,508 696,733 725,437 12,568,182 210,281 1 9.9 15.2 1,419,842 656,668 650,982 13,373,868 170,592 1 | 17.6 13.7 | 131/ | _ | 8.18 | | 15.5 | 15.3 | _ | 657,735 | 929,668 | 12,696,542 | 167,621 | 107,071,01 |
| 13.5 16.2 1,590,323 582,568 828,028 13,385,593 236,190 1 11.9 15.6 1,502,304 607,414 638,415 12,372,857 207,560 1 11.2 14.9 1,545,508 696,733 725,437 12,568,182 210,281 1 9.9 15.2 1,419,842 656,668 650,982 13,373,868 170,592 1 | 15.9 13.5 | 13.5 | 'n | 31.4 | | 12.0 | _ | _ | 603,422 | 991,714 | 12,667,200 | 180,142 | 16,134,303 |
| 11.9 15.6 1,502,304 607,414 638,415 12,372,857 207,560 1 11.2 14.9 1,545,508 696,733 725,437 12,568,182 210,281 1 9.9 15.2 1.419,842 656,668 650,982 13,373,868 170,592 1 | | 12.7 | 7 | 33.6 | 10 | 13.5 | ,- | _ | 582,568 | 828,028 | 13,385,593 | 236,190 | 16,622,702 |
| 11.2 14.9 1,545,508 696,733 725,437 12,568,182 210,281 1 9.9 15.2 1.419,842 656,668 650,982 13,373,868 170,592 1 | 17.7 11.5 | 11.5 | rJ | 31. | 9 | 11.9 | • | _ | 607,414 | 638,415 | 12,372,857 | 207,560 | 15,328,550 |
| 9.9 15.2 1,419.842 656,668 650,982 13,373,868 170,592 | 18.8 11.2 | 11.2 | Ŋ | 30. | 4 | 11.2 | | _ | 696,733 | 725,437 | 12,568,182 | 210,281 | 15,746,141 |
| | 16.3 10.4 | 10.4 | 4 | 31.0 | | 6 | _ | _ | 656 668 | 650 982 | 13 373 868 | 170 592 | 16 271 952 |
| CONTRACTION OF DEPORTURE IN THE CONTRACTION OF A THE CAST DISTON. AND THE CAST THE C | | | |) | - | | | | | | | | |

Table P2. Crude Oil Production and Average Wellhead Prices¹, 1955-2002

DNRC Statistics

| Vear | Crude Oil Production | Average Wellhead | Gross Value of | | | | |
|--|-------------------------|---------------------|-----------------|------------------|------------|----------|--------------|
| ı cai | (Mbbls) | Price | Production | | | | |
| | | (\$/bbI) | (million \$) | _ | | | |
| 1955 | 15,654 | 2.26 | 35.4 | | | | • |
| 1956 1957 | 21,760 27,122 | 2.45 2.66 | 53.3 72.1 | | | | |
| 1958 | 27,957 | 2.65 | 74.1 | | | | |
| 1959 | 29,857 | 2.53 | 75.5 | | | | |
| 1960 | 30,240 | 2.41 | 72.9 | | | | |
| 1961 1962 | 30,906 | 2.42 | 74.8 | | | | |
| 1963 | 31,648 30,870 | 2.42 2.44 | 76.6 75.3 | | | | |
| 1964 | 30,647 | 2.43 | 74.5 | | | | |
| 1965 | 32,778 | 2.43 | 79.7 | | | | |
| 1966 | 35,380 | 2.44 | 86.3 | | | | |
| 1967 1968 | 34,959 48,460 | 2.50 | 87.4 | | | | |
| 1969 | 43,954 | 2.57 2.69 | 124.5 118.2 | | | | |
| 1970 | 37,879 | 2.78 | 105.3 | | | | |
| 1971 | 34,599 | 3.01 | 104.1 | | | | |
| 1972 | 33,904 | 3.06 | 103.7 | | | | |
| 1973 1974 | 34,620 34,554 | 3.33 | 115.3 | | | | |
| 1975 | 32,844 | 6.85 7.83 | 236.7 257.2 | | | | |
| 1976 | 32,814 | 8.42 | 276.3 | | | | |
| 1977 | 32,680 | 8.63 | 282.0 | | | | |
| 1978 | 30,467 | 9.25 | 281.8 | | | | |
| 1979 | 29,957 | 12.39 | 371.2 | | | | |
| 1980 1981 | 29,584 30,813 | 22.24 34.73 | 657.9 1070.1 | | | | |
| 1982 | 30,917 | 31.26 | 966.5 | | | | |
| 1983 | 29,665 | 28.79 | 854.1 | | | | |
| 1984 | 30,080 | 28.04 | 843.4 | | | | |
| 1985 | 29,934 | 25.23 | 755.2 | | | | |
| 1986 1987 | 27,165 25,104 | 13.52 16.62 | 367.3 417.2 | | | | |
| 1988 | 23,317 | 13.87 | 323.4 | | istics | | |
| 1989 | 20,269 | 17.08 | 358.2 | | | Average | Gross Value |
| 1990 | 19,835 | 21.58 | 428.0 | | Crude Oil | Wellhead | of |
| 1991 | 19,573 | 18.18 | 355.9 | | Production | Price | Production |
| 1992 ² | 18,237 | 17.20 | | Fiscal | (Mbbls) | (\$/bbl) | (million \$) |
| 1993 ² 1994 ² | 17,327 16,425 | 14.78 | 256.1 | | | | |
| 1994 1995 ² | 16,425 | 13.68 | | FY1995 | 16,448 | | 240.1 |
| 1995 1996 ² | 15,957 | 14.96 18.81 | | FY1996 FY1997 | 15,695 | 15.60 | 244.8 |
| 1997 ² | 16,233 | 17.22 | | FY1997 FY1998 | | | |
| 1998 | 10,200 | 17.22 | 279.0 | FY1998 FY1999 | | | |
| 1999 | | | | FY2000 | | | |
| 2000 | | | | FY2001 | 15,736 | 27.40 | 431.2 |
| 2001 | | | | FY2002 | 16,603 | 20.56 | 341.4 |
| | | | | | | | |

¹ Average wellhead prices were computed by dividing the gross value of production by the number of barrels extracted.

NOTE: Some oil production is exempt from state taxation and is not included in DoR's production figures. Wells are classified for tax purposes as either oil or gas wells; only oil from wells classified as oil wells is included in DoR figures. Accordingly, production figures from 1992 on are lower than those shown in Table P1.

SOURCE: Montana Department of Natural Resources and Conservation, Oil and Gas Conservation Division, *Annual Review*, 1955-2001; Montana Department of Revenue, Biennial Report 1994-1996 and DoR files for FY01-02 (Information for intervening years cannot be retrieved from DoR's computer system).

² Due to a legal opinion on the confidentiality of tax records, the Montana Department of Revenue stopped providing data DNRC used to calculate the average price and valuation for individual fields. The DNRC data published for these years were summaries prepared by DoR. After 1997, DNRC stopped publishing this data table.

Table P3. Number of Producing Oil Wells by Region and Number of Oil and Gas Wells Drilled by

Type, 1955-2001

| 7,75 | , | Nlares | hor of D | rodusin | Oil Mall | le | | | | | Number | of Walle | Drille | vd | | | |
|--------------|----------------|-----------|------------|------------|------------|----------------|------------|----------|------------------|---------|-------------------------------|------------|--------|-------|-------------------|------------|-------|
| - | | Num | per or P | roducing | Powder | 15 | Develo | opmei | nt | | Number | Explorate | | u | | | |
| | | South | | Williston | River | | 301010 | Pilie | Dry | Service | Sub- | ZAPIOI GIL | | Dry | | Sub- | |
| Year | North | Central | Central | Basin | Basin | TOTAL | Oil | Gas | Holes | Wells | Total | Oil | Gas | • | T.A. ¹ | Total | TOTAL |
| 1955 | 2,950 | 94 | 176 | 194 | | 3,414 | 158 | 21 | 69 | | 248 | 11 | 4 | 145 | | 160 | 408 |
| 1956 | 2,969 | 96 | 213 | 306 | | 3,584 | 229 | 6 | 75 | | 310 | 12 | 0 | | | 183 | 1 |
| 1957 | 3,130 | 103 | 214 | 376 | | 3,823 | 182 | 17 | 57 | | 256 | 12 | 2 | 162 | | 176 | |
| 1958 | 3,120 | 102 | 248 | 446 | | 3,916 | 159 | 7 | 46 | | 212 | 12 | 2 | 109 | | 123 | 335 |
| 1959 | 3,067 | 100 | 266 | 455 | | 3,888 | 156 | 12 | 71 | | 239 | 7 | 6 | 101 | | 114 | 353 |
| 1960 | 2,811 | 96 | 303 | 497 | | 3,707 | 114 | 4 | 58 | | 176 | 14 | 3 | | | 167 | |
| 1961 | 2,447 | 81 | 324 | 535 | | 3,387 | 169 | 6 | 60 | | 235 | 7 | | | | 182 | |
| 1962 | 2,615 | 88 | 333 | 656 | | 3,692 | 182 | 16 | 57 | | 255 | 8 | | | | 164 | |
| 1963 | 2,550 | 82 | 310 | 700 | | 3,642 | 131 | 6 | 60 | | 197 | 8 | 5 | | | 165 | |
| 1964 | 2,216 | 88 | 317 | 708 | | 3,329 | 100 | 7 | 109 | | 216 | 22 | | | | 175 | |
| 1965 | 2,649 | 101 | 306 | 754 | | 3,810 | 177 | 9 | 107 | | 293 | 14 | | 199 | | 214 | |
| 1966 | 2,308 | 106 | 301 | 792 | 400 | 3,507 | 179 | 9 | 96 | | 284 | 10 | | 185 | | 198 | |
| 1967 | 2,097 | 96 | 286 | 802 784 | 109 328 | 3,390 | 162 300 | 14 14 | 104 89 | | 280 403 | 15 | | | | 203 537 | |
| 1968 1969 | 1,898 1,827 | 99 108 | 282 244 | 784 759 | 328 | 3,391 3,335 | 171 | 44 | 105 | | 320 | 15 | 5 | 466 | | 486 | |
| 1969 | 1,806 | 92 | 200 | 759 | 371 | 3,212 | 60 | 30 | 63 | | 153 | 12 | | 272 | | 295 | |
| 1970 | 1,768 | 96 | 212 | 743 | 321 | 3,145 | 49 | 36 | 34 | | 119 | 3 | | | | 348 | |
| 1972 | 1,856 | 83 | 224 | 706 | 265 | 3,134 | 79 | 97 | 87 | | 263 | 7 | | 435 | | 461 | |
| 1973 | 1,708 | 83 | 245 | 709 | 248 | 2,993 | 46 | 165 | 100 | | 311 | 6 | 36 | | | 408 | |
| 1974 | 1,802 | 86 | 267 | 712 | 233 | 3,100 | 58 | 179 | 212 | | 449 | 7 | 21 | 265 | | 293 | |
| 1975 | 2,067 | 100 | 303 | 734 | 231 | 3,435 | 105 | 261 | 222 | | 588 | 6 | 15 | | | 257 | |
| 1976 | 1,978 | 97 | 316 | 737 | 181 | 3,309 | 106 | 264 | 169 | | 539 | 17 | 8 | 223 | | 248 | 1 |
| 1977 | 1,999 | 109 | 343 | 789 | 178 | 3,418 | 98 | 220 | 188 | | 506 | 24 | 19 | 129 | | 172 | |
| 1978 | 2,052 | 115 | 347 | 863 | 169 | 3,546 | 123 | 223 | 232 | | 578 | 21 | 15 | | | 215 | |
| 1979 | 2,089 | 112 | 340 | 886 | 165 | 3,592 | 120 | 235 | 182 | | 537 | 35 | 20 | 211 | | 266 | 803 |
| 1980 | 2,212 | 124 | 358 | 996 | 148 | 3,838 | 241 | 203 | 206 | | 650 | 30 | 12 | 260 | | 302 | 952 |
| 1981 | 2,280 | 132 | 354 | 1,080 | 174 | 4,020 | 276 | 133 | 188 | | 597 | 126 | 85 | 341 | | 552 | 1,149 |
| 1982 | 2,455 | 138 | 249 | 1,360 | 212 | 4,414 | 263 | 145 | 120 | 19 | 547 | 64 | 46 | 248 | | 358 | 905 |
| 1983 | 2,693 | 150 | 287 | 1,446 | 222 | 4,798 | 160 | 55 | 88 | 10 | 313 | 25 | 16 | 156 | 23 | 220 | 533 |
| 1984 | 2,610 | 144 | 294 | 1,577 | 214 | 4,839 | 327 | 99 | 87 | 20 | 533 | 33 | 21 | 189 | 25 | | |
| 1985 | 2,803 | 141 | 417 | 1,540 | 216 | 5,117 | 227 | 84 | 90 | 18 | 419 | 16 | 2 | | 11 | 221 | |
| 1986 | 3,017 | 80 | 453 | 1,509 | 184 | 5,243 | 90 | 81 | 69 | 4 | 244 | 11 | 10 | | 10 | | |
| 1987 | 2,850 | 130 | 363 | 1,430 | 112 | 4,885 | 86 | 75 | 39 | 21 | 221 | 7 | 9 | | 11 | 127 | i |
| 1988 | 2,821 | 128 | 355 | 1,434 | 103 | 4,841 | 72 | 54 | 46 | 12 | 184 | 10 | | 100 | 9 | | |
| 1989 | 2,644 | 131 | 331 | 1,377 | 112 | 4,595 | 32 | 115 | 29 | 8 | 184 | 8 | 12 | 38 | 0 | 58 | 242 |
| | | | | | | | Oil | Gas | CBM ² | Storage | EOR ³ Injection | Disposal | Dry | Other | Total | | |
| 1990 | 2,579 | 135 | 323 | 1,356 | 118 | 4,514 | 44 | 192 | 0 | 2 | 4 | 1 | 92 | 0 | 335 | | |
| 1991 | 2,534 | 123 | 310 | 1,338 | 79 | 4,384 | | 155 | 4 | 2 | 3 | 0 | | | 277 | | |
| 1992 | 2,568 | 138 | 287 | 1,338 | 69 | 4,400 | | 154 | 0 | 3 | 0 | | | | 267 | | |
| 1993 | 2,408 | 122 | 298 | 1,287 | 56 | 4,171 | 44 | 78 | 0 | 1 | 5 | 0 | 46 | 1 | 175 | | |
| 1994 | 2,324 | 136 | 272 | 1,311 | 71 | 4,114 | 66 | 102 | 0 | 7 | 2 | | 77 | 4 | 260 | | |
| 1995 | 2,093 | 132 | 249 | 1,310 | 28 | 3,812 | 58 | 88 | 0 | 2 | 1 | 2 | | | 210 | | |
| 1996 | 2,020 | 120 | 242 | 1,271 | 49 | 3,702 | 71 | 66 | 0 | 2 | 7 | 2 | | | 198 | | |
| 1997 | 1,963 | 117 | 235 | 1,298 | 73 | 3,686 | 74 | 224 | 10 | 0 | 8 | 3 | 74 | | 393 | | |
| 1998 | 1,912 | 118 | 236 | 1,292 | 82 | 3,640 | 72 | 144 | 21 | 0 | 10 | 1 | 65 | | 316 | | ~ |
| 1999 | 1,831 | 119 | 225 | 1,264 | 70 | 3,509 | 25 | | 111 | 3 | 19 | 0 | | | 457 | | |
| 2000 | 1,863 | 126 | 229 | 1,304 | 76 | 3,598 | 58 | | 77 | 6 | 3 | 0 | | | 487 | | |
| 2001 | 1,824 | 131 | 220 | 1,344 | 61 | 3,580 | 95 | 276 | 48 | 1 | 11 | 3 | 81 | 0 | 515 | | |

¹ T.A. - Temporarily abandoned.

NOTE: The Montana Board of Oil and Gas recently revised its record keeping procedures. The data for wells drilled since 1990 supercede those in the previous Annual Reviews. After 1990, the number of wells drilled no longer is broken out by "Development" and "Exploratory."

SOURCE: Montana Department of Natural Resources and Conservation, Oil and Gas Division, Annual Review, 1955-2001.

Permit Data 1990-2001: Board of Oil and Gas Live Data Access, November 15, 2002 http://bogc.dnrc.state.mt.us/OnlineData.htm.

² CBM - Coalbed Methane

³ EOR - Enhanced Oil Recovery

Table P4. Refinery Receipts by Source of Crude Oil, 1955-2001 (thousand barrels)

| MONTANA WYOMING CANADA NORTH DAK | |
|---|-------------------------|
| | cent |
| | otal TOTAL ¹ |
| 1955 9,858 46.8 11,210 53.1 0 0.0 | 21,081 |
| 1956 9,053 39.6 13,720 60.0 88 0.4 | 22,861 |
| 1957 9,222 40.1 13,665 59.5 92 0.4 | 22,979 |
| 1958 9,165 39.4 14,089 60.5 12 0.1 | 23,265 |
| 1959 10,913 41.9 15,141 58.1 4 0.0 | 26,059 |
| 1960 10,531 42.3 14,383 57.7 21 0.1 | 24,935 |
| 1961 9,797 41.0 14,038 58.8 33 0.1 | 23,869 |
| 1962 11,175 39.7 16,708 59.4 266 0.9 | 28,149 |
| 1963 11,798 42.0 14,745 52.5 1,553 5.5 | 28,097 |
| 1964 12,292 38.4 15,714 49.1 4,002 12.5 | 32,007 |
| 1965 11,971 36.2 16,416 49.7 4,654 14.1 | 33,041 |
| 1966 10,626 31.8 18,120 54.2 4,684 14.0 | 33,429 |
| 1967 10,632 28.7 21,393 57.7 5,052 13.6 | 37,078 |
| 1968 9,690 23.7 20,915 51.0 10,347 25.2 | 40,951 |
| 1969 9,465 23.4 22,130 54.7 8,843 21.9 | 40,438 |
| 1970 9,080 21.5 19,342 45.7 13,908 32.8 | 42,330 |
| 1971 9,262 20.6 19,732 43.8 16,003 35.6 | 42,997 |
| 1972 8,194 16.9 19,241 39.6 21,156 43.5 | 48,591 |
| 1973 8,437 16.6 18,235 35.8 24,295 47.7 | 50,967 |
| 1974 7,989 16.6 16,949 35.3 23,115 48.1 | 48,053 |
| 1975 8,002 16.6 19,465 40.4 20,690 43.0 | 48,157 |
| 1976 8,517 16.9 18,311 36.4 23,494 46.7 | 50,322 |
| 1977 8,928 18.5 18,248 37.8 20,921 43.3 200 | 0.4 48,297 |
| 1978 8,848 18.5 17,513 36.6 21,369 44.7 69 | 0.1 47,739 |
| 1979 8,668 17.1 18,368 36.3 23,578 46.6 6 | 0.0 50,620 |
| 1980 8,016 17.9 19,050 42.6 17,627 39.4 25 | 0.1 44,719 |
| 1981 8,691 22.4 18,298 47.2 11,797 30.4 14 | 0.0 38,801 |
| 1982 8,653 20.5 18,178 43.0 15,402 36.5 | 0.0 42,234 |
| 1983 7,120 16.9 19,183 45.7 15,584 37.2 45 | 0.1 41,932 |
| 1984 7,821 18.2 20,552 47.9 14,516 33.8 55 | 0.0 42,945 |
| 1985 7,804 19.0 17,258 41.9 16,075 39.1 10 | 0.0 41,149 |
| 1986 6,019 - 14.1 13,795 32.4 22,778 53.5 | 42,593 |
| 1987 4,993 11.6 13,758 31.9 24,396 56.5 | 43,147 |
| 1988 4,607 10.5 14,907 34.0 24,306 55.5 | 43,820 |
| 1989 4,475 9.6 16,675 35.8 25,480 54.6 | 46,630 |
| 1990 4,057 8.5 16,431 34.4 27,271 57.1 | 47,760 |
| 1991 4,272 9.2 15,031 32.5 26,991 58.3 | 46,294 |
| 1992 3,907 8.3 14,820 31.6 28,110 60.0 | 46,837 |
| 1993 3,395 6.9 15,116 30.5 30,977 62.6 | 49,489 |
| 1994 3,109 5.9 11,865 22.7 37,383 71.4 | 52,357 |
| 1995 3,042 5.9 10,074 19.6 38,266 74.5 | 51,381 |
| 1996 3,033 5.5 9,686 17.5 42,549 77.0 | 55,269 |
| 1997 3,178 5.7 12,840 23.2 39,296 71.0 | 55,314 |
| 1998 3,203 5.7 13,067 23.5 39,449 70.8 | 55,719 |
| 1999 3,162 5.6 12,623 22.2 40,986 72.2 | 56,772 |
| 2000 4,829 8.4 10,868 18.8 42,117 72.8 | 57,815 |
| 2001 4,349 7.6 10,167 17.7 42,950 74.7 | 57,465 |

¹ Includes 13,000 barrels from South Dakota in 1955.

NOTE: Data originally reported by the Montana Oil and Gas Conservation Division have been revised on the basis of further information received from individual refineries. The Oil and Gas Conservation Division data originally understated Canadian inputs and overstated Wyoming inputs to the Continental Oil refinery, at least for the years 1968-75. Canadian inputs to the Big West Oil and Westco refineries were apparently not reported to the Oil and Gas Conservation Division. Revised data are available only for the years 1972-75, but it is likely that Canadian inputs to these two refineries were significant before 1972.

SOURCE: Montana Department of Natural Resources and Conservation, Oil and Gas Conservation Division, Annual Review, 1955-2001.

Table P5. Refinery Receipts by Source of Oil, 1996-2001 (barrels)

| | | | | | | | <u> </u> | | | |
|-------------------|------------------------|--------|------------|-------|------------|-------|------------|--------|------------|--------|
| Average | | | | | _ | | Montana | | | |
| (1996-2001) | Cenex | | Conoco | | Exxon | | Refining | | TOTALS | |
| Montana | 1,428,579 | 9% | 332,362 | 2% | 1,541,400 | 8% | 470,424 | 21% | 3,625,647 | 6% |
| Wyoming | 934,966 | 6% | 797,437 | 4% | 9,894,895 | 53% | | - | 11,542,026 | 20% |
| Canada | 14,188,161 | 86% | 17,979,253 | 94% | 7,279,270 | 39% | 1,805,204 | 79% | 41,224,628 | 73% |
| Total | | | 10 100 050 | 4000/ | 10 715 501 | 1000/ | 0.075.000 | 4000/ | 50,000,004 | 1000/ |
| Received | 16,551,706 | 100% | 19,109,052 | 100% | 18,715,564 | 100% | 2,275,628 | 100% | 56,392,301 | 100% |
| | | | | | | | Montana | | | |
| 2001 | Cenex | | Conoco | | Exxon | | Refining | | TOTALS | |
| Montana | 1,299,462 | 7% | 101,308 | 1% | 2,570,950 | 14% | 376,851 | 17% | 4,348,571 | 8% |
| Wyoming | 758,202 | 4% | 642,068 | 3% | 8,766,396 | 47% | - | - | 10,166,666 | 18% |
| Canada | 15,511,970 | 88% | 18,409,816 | 96% | 7,148,432 | 39% | 1,879,859 | 83% | 42,950,077 | 75% |
| Total | | | | | | | | | | |
| Received | 17,569,634 | 100% | 19,153,192 | 100% | 18,485,778 | 100% | 2,256,710 | 100% | 57,465,314 | 100% |
| | | | | | | | Montana | | | |
| 2000 | Cenex | | Conoco | | Exxon | | Refining | | TOTALS | |
| Montana | 1,324,090 | 8% | 485,023 | 2% | 3,453,661 | 17% | 449,119 | 21% | 4,829,182 | 8% |
| Wyoming | 1,530,079 | 9% | 571,760 | 3% | 9,278,031 | 46% | - ′ | - | 10,868,235 | 19% |
| Canada | 13,569,484 | 83% | 19,659,959 | 95% | 7,311,986 | 36% | 1,739,580 | 79% | 42,117,455 | 73% |
| Total | | | | | | | | | | |
| Received | 16,423,653 | 100% | 20,716,742 | 100% | 20,043,678 | 100% | 2,188,699 | 100% | 57,814,872 | 100% |
| | | | | | | | Montana | | | |
| 1999 | Cenex | | Conoco | | Exxon | | Refining | | TOTALS | |
| Montana | | 8% | 298,747 | 2% | 972,330 | 5% | 522,394 | 22% | 3,162,197 | 6% |
| | 1,368,726 1,541,855 | 9% | 670,904 | 4% | 10,410,600 | 52% | - | - | 12,623,359 | 22% |
| Wyoming Canada | 13,673,690 | 82% | 16,906,241 | 95% | 8,563,587 | 43% | 1,842,652 | 78% | | 72% |
| Total | 13,073,030 | 02 /6 | 10,300,241 | 3376 | 0,000,007 | 40 /0 | 1,042,002 | 1070 | 40,000,170 | , 270 |
| Received | 16,584,271 | 100% | 17,875,892 | 100% | 19 946 517 | 100% | 2 365 046 | 100% | 56,771,726 | 100% |
| Heodivou | 10,001,271 | 10070 | 77,070,002 | .0070 | 10,010,017 | | | | | |
| | | | | | _ | | Montana | | TOTALO | |
| 1998 | Cenex | | Conoco | | Exxon | | Refining | | TOTALS | |
| Montana | 1,524,879 | 9% | 223,173 | 1% | 811,281 | 5% | 643,397 | 28% | 3,202,730 | 6% |
| Wyoming | 572,752 | 3% | 1,585,674 | 8% | 10,908,612 | 61% | - | 709/ | 13,067,038 | 23% |
| Canada | 14,471,664 | 87% | 17,220,914 | 90% | 6,112,547 | 34% | 1,644,159 | 12% | 39,449,284 | 71% |
| Total Received | 16 560 205 | 100% | 19,029,761 | 100% | 17 832 440 | 100% | 2 287 556 | 100% | 55,719,052 | 100% |
| neceived | 10,309,293 | 100 /6 | 19,029,701 | 10076 | 17,002,440 | 10078 | ******* | 100 /0 | 33,713,032 | 10070 |
| | | | | | | | Montana | | | |
| 1997 | Cenex | | Conoco | | Exxon | | Refining | | TOTALS | |
| Montana | 1,535,580 | 10% | 600,006 | 3% | 725,947 | 4% | 316,258 | 14% | 3,177,791 | 6% |
| Wyoming | 318,086 | 2% | 833,367 | 4% | 11,689,031 | 64% | - - | - | 12,840,484 | 23% |
| Canada | 13,882,187 | 88% | 17,788,440 | 93% | 5,709,115 | 32% | 1,916,027 | 86% | 39,295,769 | 71% |
| Total | | | | | | | | 1000/ | 55.044.044 | 4.000/ |
| Received | 15,735,853 | 100% | 19,221,813 | 100% | 18,124,093 | 100% | 2,232,285 | 100% | 55,314,044 | 100% |
| | | | | | | | Montana | | | |
| 19 96 | Cenex | | Conoco | | Exxon | | Refining | | TOTALS | |
| Montana | 1,518,735 | 9% | 285,917 | 2% | 714,231 | 4% | 514,526 | 22% | 3,033,409 | 5% |
| Wyoming | 888,823 | 5% | 480,852 | 3% | 8,316,697 | 47% | - | - | 9,686,372 | 18% |
| Canada | 14,019,969 | 85% | 17,890,145 | 96% | 8,829,952 | 49% | 1,808,948 | 78% | 42,549,014 | 77% |
| Total | | | | | | | | | | |
| Received | 16,427,527 | 100% | 18,656,914 | 100% | 17,860,880 | 100% | 2,323,474 | 100% | 55,268,795 | 100% |
| | | | | | | | | | | |

Source: Montana Department of Natural Resources and Conservation Montana Oil and Gas Annual Review (1996-2001)

Table P6. Petroleum Product Consumption Estimates, 1960-99 (thousand barrels)

| Year | Asphalt and | | | Jet Fuel | Kerosene | LPG | Lubricants | Motor | Residual | Other ¹ | TOTAL |
|--------------|----------------|------------|-------------------------|------------|------------|----------------|------------|----------------|----------------|--------------------|------------------|
| 1000 | Road Oil | Gasoline | Fuel | | | | | Gasoline | Fuel | | |
| 1960 | 865 | 1,006 | 4,898 | 265 | 477 | 737 | 161 | 6,922 | 2,063 | 1,635 | 19,028 |
| 1961 | 823 | 1,427 | 5,278 | 280 | 366 | 859 | 157 | 6,979 | 2,580 | 2,023 | 20,771 |
| 1962 | 786 | 473 | 5,549 | 311 | 265 | 819 | 171 | 7,553 | 3,052 | 2,149 | 21,127 |
| 1963 | 900 | 499 | 5,393 | 340 | 359 | 766 | 171 | 7,481 | 2,852 | 2,508 | 21,269 |
| 1964 1965 | 1,328 | 340 312 | 5,702 | 360 | 679 | 925 926 | 179 | 7,374 | 2,300 | 2,403 | 21,590 |
| | 1,003 974 | | 4,962 | 384 | 248 | | 189 | 7,709 | 1,241 | 2,531 | 19,505 |
| 1966 1967 | | 198 131 | 5,695 3, 3 94 | 441 574 | 118 859 | 1,167 | 196 175 | 7,953 | 1,459 | 2,697 | 20,897 |
| 1968 | 1,066 1,221 | 65 | 4,113 | 697 | 815 | 1,585 | | 8,104 | 1,231 | 2,871 | 19,990 |
| 1969 | 1,189 | 38 | 4,641 | 806 | 657 | 1,689 1,690 | 192 196 | 8,585 8,737 | 1,509 | 3,314 | 22,201 |
| 1970 | 1,347 | 43 | 4,827 | 649 | 376 | 1,326 | 200 | 9,262 | 1,556 1,268 | 3,558 3,155 | 23,069 22,452 |
| 1971 | 1,337 | 42 | 5,715 | 767 | 362 | 1,402 | 188 | 9,494 | 1,262 | 3,109 | 23,679 |
| 1972 | 1,489 | 94 | 6,206 | 762 | 383 | 1,705 | 201 | 10,137 | 1,469 | 3,565 | 26,009 |
| 1973 | 1,397 | 110 | 6,989 | 757 | 405 | 1,503 | 219 | 10,883 | 1,765 | 3,779 | 27,809 |
| 1974 | 1,222 | 105 | 7,840 | 780 | 174 | 1,466 | 210 | 10,550 | 2,262 | 3,470 | 28,079 |
| 1975 | 924 | 79 | 7,586 | 818 | 122 | 1,370 | 208 | 10,630 | 2,178 | 3,410 | 27,325 |
| 1976 | 1,283 | 94 | 8,411 | 753 | 79 | 1,421 | 231 | 11,605 | 2,525 | 3.265 | 29,667 |
| 1977 | 1,133 | 92 | 8,258 | 772 | 93 | 1,368 | 247 | 11,100 | 2,506 | 3,503 | 29,072 |
| 1978 | 942 | 87 | 8,232 | 699 | 95 | 1,662 | 266 | 12,809 | 2,502 | 3,493 | 30,787 |
| 1979 | 1,054 | 122 | 9,037 | 907 | 17 | 1,094 | 278 | 11,162 | 5,773 | 3,298 | 32,743 |
| 1980 | 1,020 | 159 | 7,509 | 920 | 0 | 1,806 | 247 | 10,416 | 4,025 | 3,007 | 29,110 |
| 1981 | 1,035 | 177 | 6,469 | 800 | 26 | 1,027 | 237 | 10,797 | 2,494 | 2,721 | 25,783 |
| 1982 | 884 | 92 | 5,828 | 625 | 0 | 1,446 | 216 | 10,429 | 1,608 | 2,534 | 23,661 |
| 1983 | 1,130 | 102 | 8,863 | 652 | 18 | 1,497 | 227 | 10,525 | 1,306 | 2,422 | 26,741 |
| 1984 | 1,215 | 77 | 9,446 | 642 | 19 | 1,032 | 242 | 10,451 | 798 | 2,691 | 26,614 |
| 1985 | 1,463 | 91 | 11,317 | 678 | 10 | 1,576 | 225 | 10,188 | 133 | 2,512 | 28,193 |
| 1986 | 1,989 | 105 | 7,004 | 867 | 22 | 1,505 | 220 | 10,158 | 47 | 2,507 | 24,424 |
| 1987 | 1,642 | 82 | 6,556 | 718 | 8 | 1,716 | 249 | 10,258 | 23 | 3,236 | 24,489 |
| 1988 | 1,473 | 107 | 6,308 | 809 | 4 | 1,515 | 240 | 10,441 | 221 | 3,624 | 24,742 |
| 1989 | 1,749 | 95 | 7,679 | 750 | 3 | 1,608 | 246 | 10,310 | 182 | 3,697 | 26,320 |
| 1990 | 1,487 | 111 | 7,422 | 708 | 8 | 1,740 | 253 | 10,328 | 221 | 4,054 | 26,332 |
| 1991 | 1,350 | 108 | 8,321 | 615 | 3 | 1,053 | 227 | 10,360 | 146 | 3,568 | 25,750 |
| 1992 | 1,309 | 75 | 7,716 | 864 | 1 | 1,018 | 231 | 10,727 | 89 | 4,473 | 26,503 |
| 1993 | 1,707 | 64 | 8,004 | 901 | 8 | 2,200 | 235 | 10,999 | 689 | 3,906 | 28,712 |
| 1994 | 1,964 | 75 | 8,254 | 855 | 7 | 1,055 | 246 | 11,097 | 374 | 4,327 | 28,255 |
| 1995 | 1,293 | 78 | 8,924 | 1,052 | 1 | 918 | 242 | 11,328 | 240 | 4,269 | 28,344 |
| 1996 | 1,702 | 99 | 9,818 | 999 | 1 | 1,618 | 235 | 11,753 | 184 | 4,876 | 31,284 |
| 1997 | 1,448 | 71 | 10,782 | 792 | 2 | 277 | 248 | 11,480 | 165 | 4,704 | 29,969 |
| 1998 | 1,594 | 102 | 8,586 | 797 | 3 | 271 | 259 | 11,596 | 113 | 5,281 | 28,603 |
| 1999 | 2,625 | 121 | 8,653 | 836 | 2 | 527 | 262 | 11,768 | 24 | 5,915 | 30,735 |

¹ In Montana "Other Petroleum Products" are used primarily in petroleum industry operations and as refinery fuels.

NOTE: DOE models provide the best consumption estimates available. However, some of the more dramatic year-to-year variation in consumption levels may be due to the models themselves or to changes in the models or data sources.

SOURCE: U.S. Department of Energy, Energy Information Administration, *State Energy Data Report, Consumption Estimates*, 1960-99 (DOE/EIA 0214; http://www.eia.doe.gov/emeu/sedr/contents.html#Data%20Files).

Table P7. Residential Petroleum Product Consumption Estimates, 1960-90 (thousand barrels)

Distillate

| Year | Fuel | LPG ¹ |
|--------------|------------|------------------|
| 1960 | 262 | 506 |
| 1961 | 335 | 616 |
| 1962 | 335 | 560 |
| 1963 | 328 | 499 |
| 1964 1965 | 312 277 | 655 636 |
| 1966 | 286 | 758 |
| 1967 | 196 | 994 |
| 1968 | 250 | 1,068 |
| 1969 | 289 | 1,072 |
| 1970 | 249 | 887 |
| 1971 | 397 | 905 |
| 1972 | 436 | 1,094 |
| 1973 | 495 | 965 |
| 1974 1975 | 542 589 | 1,026 973 |
| 1976 | 646 | 993 |
| 1977 | 616 | 993 |
| 1978 | 657 | 1,276 |
| 1979 | 675 | 606 |
| 1980 | 421 | 829 |
| 1981 | 273 | 503 |
| 1982 | 352 | 736 |
| 1983 1984 | 449 459 | 901 428 |
| 1985 | 345 | 604 |
| 1986 | 351 | 641 |
| 1987 | 247 | 709 |
| 1988 | 235 | 715 |
| 1989 | 366 | 831 |
| 1990 | 288 | 813 |
| 1991 | 356 | 703 |
| 1992 | 218 | 598 |
| 1993 1994 | 267 189 | 548 541 |
| 1995 | 252 | 473 |
| 1996 | 438 | 519 |
| 1997 | 910 | 152 |
| 1998 | 461 | 86 |
| 1999 | 256 | 342 |
| | | |

¹ DOE has numerous caveats on its allocation of LPG consumption to the various sectors.

NOTE: This table excludes a small amount of kerosene consumption, which could not be estimated accurately by DOE models.

DOE models provide the best consumption estimates available. However, some of the more dramatic year-to-year variation in consumption levels may be due to the models themselves or to changes in the models or data sources.

SOURCE: U.S. Department of Energy, Energy Information Administration, *State Energy Data Report, Consumption Estimates*, 1960-99 (DOE/EIA 0214) (http://www.eia.doe.gov/emeu/sedr/contents.html#HTML%20Tables).

Table P8. Commercial Petroleum Product Consumption Estimates, 1960-99 (thousand barrels)

| Year | Distillate Fuel | LPG ¹ | Motor Gasoline ² | Residual Fuel |
|--------------|--------------------|------------------|--------------------------------|------------------|
| 1960 | 297 | 89 | 135 | 2 |
| 1961 | 380 | 109 | 146 | 3 |
| 1962 | 380 | 99 | 121 | 4 |
| 1963 | 372 | 88 | 141 | 4 |
| 1964 | 354 | 116 | 127 | 3 |
| 1965 | 315 | 112 | 144 | 1 |
| 1966 | 324 | 134 | 123 | 1 |
| 1967 | 223 | 175 | 135 | 1 |
| 1968 | 284 | 188 | 133 | 1 |
| 1969 | 329 | 189 | 107 | 1 |
| 1970 | 283 | 157 | 220 | 1 |
| 1971 | 451 | 160 | 127 | 1 |
| 1972 | 496 | 193 | 168 | 1 |
| 1973 | 562 | 170 | 136 | 1 |
| 1974 | 616 | 181 | 125 | 2 |
| 1975 | 668 | 172 | 174 | 2 |
| 1976 | 734 | 175 | 163 | 3 |
| 1977 | 699 | 175 | 157 | 3 |
| 1978 | 746 | 225 | 167 | 4 |
| 1979 | 766 | 107 | 179 | 11 |
| 1980 | 346 | 146 | 92 | 7 |
| 1981 | 380 | 89 | 110 | 0 |
| 1982 | 183 | 130 | 127 | 5 |
| 1983 | 1,104 | 159 | 76 | 172 |
| 1984 | 1,128 | 75 | 61 | 105 |
| 1985 | 863 | 107 | 72 | 126 |
| 1986 | 403 | 113 | 76 | 37 |
| 1987 | 305 | 125 | 79 | 13 |
| 1988 | 199 | 126 | 76 | 9 |
| 1989 | 204 | 147 | 77 | 13 |
| 1990 | 153 | 143 | 83 | 11 |
| 1991 | 204 | 124 | 63 | 3 |
| 1992 | 169 | 106 | 55 | 4 |
| 1993 | 194 | 97 | 12 | 5 |
| 1994 1995 | 189 | 95 | 15 | 3 |
| 1995 | 118 308 | 83 92 | 13 19 | 3 |
| 1996 | 215 | 92 27 | 19 | 1 |
| 1997 | 130 | 15 | 14 | 1 |
| 1999 | 161 | 60 | 14 | 3 |
| 1333 | וסו | 60 | 14 | 3 |

¹ DOE has numerous caveats on its allocation of LPG consumption to the various sectors.

NOTE: This table does not include kerosene since very little has been consumed in the commercial sector in recent years. DOE models provide the best consumption estimates available. However, some of the more dramatic year-to-year variation in consumption levels may be due to the models themselves or to changes in the models or data sources.

SOURCE: U.S. Department of Energy, Energy Information Administration, *State Energy Data Report, Consumption Estimates*, 1960-99 (DOE/EIA 0214; http://www.eia.doe.gov/emeu/sedr/contents.html#HTML%20Tables).

² Includes miscellaneous (including unclassified) and public nonhighway sales of motor gasoline.

Table P9. Industrial Petroleum Product Consumption Estimates, 1960-99 (thousand barrels)

| ` Year | Distillate | LPG ² | Lubricants | Motor | Residual |
|-----------|-------------------|------------------|-------------|-----------------------|-------------------|
| | Fuel ¹ | LFG | Lubilicants | Gasoline ³ | Fuel ⁴ |
| 1960 | 1,500 | 112 | 23 | 816 | 1,684 |
| 1961 | 1,841 | 104 | 23 | 923 | 1,960 |
| 1962 | 2,159 | 125 | 30 | 685 | 2,575 |
| 1963 | 2,174 | 145 | 30 | 796 | 2,438 |
| 1964 | 2,331 | 128 | 31 | 746 | 1,986 |
| 1965 | 1,693 | 164 | 41 | 887 | 914 |
| 1966 | 2,123 | 254 | 43 | 681 | 980 |
| 1967 | 1,033 | 356 | 40 | 791 | 882 |
| 1968 | 1,222 | 359 | 44 | 745 | 1,242 |
| 1969 | 1,373 | 361 | 45 | 476 | 1,212 |
| 1970 | 1,274 | 246 | 46 | 635 | 1,123 |
| 1971 | 1,750 | 282 | 43 | 570 | 1,174 |
| 1972 | 1,863 | 339 | 46 | 702 | 1,390 |
| 1973 | 2,073 | 302 | 60 | 568 | 1,577 |
| 1974 | 2,413 | 206 | 58 | 503 | 2,126 |
| 1975 | 2,494 | 174 | 46 | 774 | 1,963 |
| 1976 | 2,926 | 202 | 51 | 774 | 2,303 |
| 1977 | 2,890 | 162 | 51 | 703 | 2,176 |
| 1978 | 2,375 | 115 | 55 | 578 | 2,270 |
| 1979 | 2,787 | 364 | 57 | 663 | 5,609 |
| 1980 | 1,925 | 786 | 51 | 619 | 4,018 |
| 1981 | 1,943 | 382 | 49 | 663 | 2,494 |
| 1982 | 1,396 | 551 | 45 | 632 | 1,603 |
| 1983 | 3,173 | 383 | 47 | 509 | 1,132 |
| 1984 | 3,241 | 461 | 50 | 558 | 692 |
| 1985 | 5,798 | 814 | 46 | 677 | 7 |
| 1986 | 2,124 | 696 | 45 | 637 | 10 |
| 1987 | 1,802 | 844 | 51 | 574 | 10 |
| 1988 | 1,619 | 626 | 50 | 575 | 212 |
| 1989 | 2,783 | 578 | 51 | 631 | 169 |
| 1990 | 2,749 | 717 | 52 | 615 | 209 |
| 1991 | 3,559 | 178 | 47 | 611 | 143 |
| 1992 | 2,589 | 279 | 48 | 572 | 86 |
| 1993 | 2,737 | 1,513 | 49 | 567 | 684 |
| 1994 | 2,275 | 360 | 51 | 603 | 371 |
| 1995 | 2,645 | 333 | 50 | 646 | 237 |
| 1996 | 3,461 | 991 | 48 | 663 | 181 |
| 1997 | 3,220 | 90 | 51 | 686 | 164 |
| 1998 | 2,229 | 108 | 54 | 437 | 112 |
| 1999 | 2,253 | 112 | 54 | 420 | 22 |

Includes deliveries for industrial use (including industrial space heating and farm use), oil company use, off-highway use, and "other" uses. Does not include use at electric utilities.

NOTE: This table does not show the categories "asphalt and road oil" and "other petroleum products," which are consumed solely in the industrial sector. It also does not include kerosene, since the consumption has been minimal in recent years.

DOE models provide the best consumption estimates available. However, some of the more dramatic year-to-year variation in consumption levels may be due to the models themselves or to changes in the models or data sources.

SOURCE: U.S. Department of Energy, Energy Information Administration, State Energy Data Report, Consumption Estimates, 1960-99 (DOE/EIA 0214; http://www.eia.doe.gov/emeu/sedr/contents.html#HTML%20Tables).

² DOE has numerous caveats on its allocation of LPG consumption to the various sectors.

³ Includes sales for agricultural use, construction use, and industrial and commercial use.

⁴ Includes industrial use, oil company use, and "other" uses.

Table P10. Transportation Petroleum Product Consumption Estimates, 1960-99 (thousand barrels)

| Year | Aviation Gasoline ¹ | Distillate Fuel ² | Jet Fuel ³ | LPG ⁴ | Lubricants | Motor Gasoline⁵ | Residual Fuel ⁶ |
|------|-----------------------------------|---------------------------------|--------------------------|------------------|------------|--------------------|-------------------------------|
| 1960 | 1,006 | 2,839 | 265 | 29 | 137 | 5,972 | 377 |
| 1961 | 1,427 | 2,721 | 280 | 31 | 134 | 5,910 | 617 |
| 1962 | 473 | 2,675 | 311 | 35 | 141 | 6,747 | 471 |
| 1963 | 499 | 2,520 | 340 | 34 | 141 | 6,544 | 410 |
| 1964 | 340 | 2,705 | 360 | 26 | 148 | 6,501 | 307 |
| 1965 | 312 | 2,676 | 384 | 13 | 148 | 6,678 | 325 |
| 1966 | 198 | 2,961 | 441 | 21 | 153 | 7,148 | 396 |
| 1967 | 131 | 1,941 | 574 | 60 | 135 | 7,178 | 342 |
| 1968 | 65 | 2,356 | 697 | 73 | 148 | 7,708 | 243 |
| 1969 | 38 | 2,649 | 806 | 68 | 151 | 8,155 | 238 |
| 1970 | 43 | 3,020 | 649 | 36 | 154 | 8,407 | 119 |
| 1971 | 42 | 3,116 | 767 | 56 | 145 | 8,797 | 87 |
| 1972 | 94 | 3,408 | 762 | 78 | 155 | 9,267 | 63 |
| 1973 | 110 | 3,834 | 757 | 65 | 159 | 10,179 | 44 |
| 1974 | 105 | 4,266 | 780 | 53 | 152 | 9,922 | 122 |
| 1975 | 79 | 3,835 | 818 | 50 | 162 | 9,682 | 160 |
| 1976 | 94 | 4,101 | 753 | 50 | 180 | 10,668 | 141 |
| 1977 | 92 | 4,049 | 772 | 37 | 196 | 10,240 | 136 |
| 1978 | 87 | 4,451 | 699 | 46 | 211 | 12,064 | 134 |
| 1979 | 122 | 4,791 | 907 | 18 | 220 | 10,320 | 24 |
| 1980 | 159 | 4,759 | 920 | 45 | 196 | 9,705 | 0 |
| 1981 | 177 | 3,834 | 800 | 52 | 188 | 10,024 | 0 |
| 1982 | 92 | 3,866 | 625 | 29 | 172 | 9,671 | 0 |
| 1983 | 102 | 4,106 | 652 | 54 | 180 | 9,940 | 3 |
| 1984 | . 77 | 4,540 | 642 | 69 | 192 | 9,831 | 2 |
| 1985 | 91 | 4,273 | 678 | 51 | 179 | 9,439 | * |
| 1986 | 105 | 4,101 | 867 | 55 | 175 | 9,445 | 0 |
| 1987 | 82 | 4,157 | 718 | 39 | 197 | 9,604 | 0 |
| 1988 | 107 | 4,192 | 809 | 48 | 190 | 9,789 | 0 |
| 1989 | 95 | 4,266 | 750 | 53 | 195 | 9,602 | 0 |
| 1990 | 111 | 4,169 | 708 | 67 | 201 | 9,630 | 0 |
| 1991 | 108 | 4,161 | 615 | 48 | 180 | 9,687 | 0 |
| 1992 | 75 | 4,705 | 864 | 35 | 183 | 10,100 | 0 |
| 1993 | 64 | 4,758 | 901 | 43 | 187 | 10,421 | 0 |
| 1994 | 75 | 5,559 | 855 | 58 | 195 | 10,479 | 0 |
| 1995 | 78 | 5,856 | 1,052 | 28 | 192 | 10,669 | 0 |
| 1996 | 99 | 5,570 | 999 | 16 | 186 | 11,070 | 0 |
| 1997 | 71 | 6,397 | 792 | 8 | 197 | 10,782 | 0 |
| 1998 | 102 | 5,734 | 797 | 62 | 206 | 11,145 | 0 |
| 1999 | 121 | 5,952 | 836 | 12 | 208 | 11,334 | 0 |

^{*} Less than 0.5.

NOTE: DOE models provide the best consumption estimates available. However, some of the more dramatic year-to-year changes in consumption levels may be due to the models themselves or to changes in the models or data sources. **SOURCE:** U.S. Department of Energy, Energy Information Administration, *State Energy Data Report, Consumption*

Estimates, 1960-99 (DOE/EIA 0214; http://www.eia.doe.gov/emeu/sedr/contents.html#HTML%20Tables).

¹ Includes military and non-military use.

² Includes deliveries for military use, railroad use and highway use.

³ Non-military use only of kerosene-type jet fuel.

⁴ DOE has numerous caveats on its allocation of LPG consumption to the various sectors.

⁵ This table does not cover all uses of gasoline included in "Highway Use of Motor Fuel" in Table P11.

⁶ Includes military use and railroad use.

Table P11. Motor Fuel Use, 1950-2000 (thousand gallons)

| | | | | Nonhighway | | |
|------|------------|-----------|----------|------------|----------------|---------------|
| | | | | Use of | Losses Due to | TOTAL |
| | Highway Us | e of Moto | r Fuel | Motor Fuel | Evaporation, . | Consumption |
| Year | Gasoline | Diesel | Subtotal | (gasoline) | Handling, etc. | of Motor Fuel |
| 1950 | 169,162 | 7,593 | 176,755 | 52,994 | 3,486 | 233,235 |
| 1951 | 185,221 | 9,708 | 194,929 | 43,585 | 3,570 | 242,084 |
| 1952 | 188,254 | 12,385 | 200,639 | 57,533 | 3,864 | 262,036 |
| 1953 | 215,163 | 14,172 | 229,335 | 38,281 | 3,906 | 271,522 |
| 1954 | 204,579 | 16,990 | 221,569 | 58,832 | 4,032 | 284,433 |
| 1955 | 211,973 | 17,323 | 229,296 | 60,322 | 3,948 | 293,566 |
| 1956 | 233,910 | 17,662 | 251,572 | 53,373 | 4,326 | 309,271 |
| 1957 | 222,648 | 19,969 | 242,617 | 65,271 | 2,898 | 310,786 |
| 1958 | 239,541 | 21,547 | 261,088 | 50,097 | 2,940 | 314,125 |
| 1959 | 239,150 | 26,313 | 265,463 | 64,459 | 3,024 | 332,946 |
| 1960 | 242,430 | 27,216 | 269,646 | 69,974 | 3,150 | 342,770 |
| 1961 | 240,490 | 31,255 | 271,745 | 89,218 | 3,360 | 364,323 |
| 1962 | 274,043 | 30,311 | 304,354 | 41,413 | 3,654 | 349,421 |
| 1963 | 267,671 | 33,447 | 301,118 | 46,958 | 3,738 | 351,814 |
| 1964 | 273,144 | 35,294 | 308,438 | 42,657 | 3,612 | 354,707 |
| 1965 | 280,705 | 38,879 | 319,584 | 48,872 | 3,906 | 372,362 |
| 1966 | 269,659 | 43,253 | 312,912 | 40,736 | | 357,428 |
| 1967 | 300,192 | 40,668 | 340,860 | 44,078 | 3,990 | 388,928 |
| 1968 | 321,429 | 45,756 | 367,185 | 40,607 | 4,032 | 411,824 |
| 1969 | 342,954 | 49,868 | 392,822 | 27,902 | | 424,798 |
| 1970 | 352,654 | 58,136 | 410,790 | 39,654 | | 454,686 |
| 1971 | 372,174 | 61,295 | 433,469 | 33,345 | 4,242 | 471,056 |
| 1972 | 394,482 | 69,145 | 463,627 | 42,185 | 4,368 | 510,180 |
| 1973 | 432,272 | 76,954 | 509,226 | 35,933 | 4,662 | 549,821 |
| 1974 | 412,004 | 72,955 | 484,959 | 31,842 | | 521,253 |
| 1975 | 404,957 | 72,682 | 477,639 | 45,256 | | 527,389 |
| 1976 | 449,092 | 87,051 | 536,143 | 46,148 | | 587,289 |
| 1977 | 431,617 | 89,381 | 520,998 | 42,667 | | 568,117 |
| 1978 | 511,119 | 100,375 | 611,494 | 38,123 | | 654,825 |
| 1979 | 443,580 | 103,756 | 547,336 | 44,112 | | 596,698 |
| 1980 | 416,511 | 98,615 | 515,126 | 40,788 | | 560,576 |
| 1981 | 423,780 | 108,849 | 532,629 | 44,001 | 4,704 | 581,334 |
| 1982 | 406,462 | 110,864 | 517,326 | 40,371 | 4,410 | 562,107 |
| 1983 | 418,919 | 105,234 | 524,153 | 33,306 | | 561,953 |
| 1984 | 416,313 | 117,012 | 533,336 | 34,828 | | 568,164 |
| 1985 | 403,929 | 109,043 | 512,972 | 37,675 | | 550,647 |
| 1986 | 404,386 | 107,192 | 511,578 | 36,006 | | 547,584 |
| 1987 | 407,673 | 108,341 | 516,014 | 33,187 | | 549,201 |
| 1988 | 412,126 | 117,389 | 529,515 | 33,710 | | 563,225 |
| 1989 | 408,306 | 120,917 | 529,223 | 35,714 | | 564,937 |
| 1990 | 410,718 | 125,346 | 536,064 | 36,646 | | 572,710 |
| 1991 | 409,896 | 116,176 | 526,072 | 36,365 | | 562,437 |
| 1992 | 432,413 | 133,926 | 566,339 | 32,650 | | 598,989 |
| 1993 | 441,553 | 139,443 | 580,996 | 29,807 | | 610,803 |
| 1994 | 444,618 | 156,703 | 601,321 | 32,358 | | 633,679 |
| 1995 | 447,134 | 159,632 | 606,766 | 34,258 | | 641,024 |
| 1996 | 466,331 | 146,177 | 612,508 | 36,169 | | 648,677 |
| 1997 | 454,226 | 175,736 | 629,962 | 35,250 | | 665,212 |
| 1998 | 469,369 | 172,711 | 642,080 | 26,862 | | 668,942 |
| 1999 | 480,754 | 185,212 | 665,966 | 26,486 | | 692,452 |
| 2000 | 469,683 | 190,450 | 660,133 | 26,394 | | 686,527 |
| 2000 | ,00,000 | 100,700 | 555, 155 | 20,007 | | 300,027 |

NOTE: Motor fuel is defined by the US Department of Transportation as all gasoline covered by state motor fuel tax laws plus diesel fuel and LPG used in the propulsion of motor vehicles. (The Montana data do not include any LPG.) Gasohol is included with gasoline. Military use of motor fuel and aviation jet fuel use are excluded from DOT data. Figures for highway use of fuels may be understated because of refunds given on fuel for nonhighway use such as agriculture.

Starting in 1984, losses due to evaporation and handling are no longer calculated by FHWA. Total consumption of motor fuel from 1984-2000, therefore, does not include this figure. To compare the total for these years to the total for the previous years, the losses should be subtracted from the 1950-83 total consumption column.

SOURCE: U.S. Department of Transportation, Federal Highway Administration, Highway Statistics, annual reports, 1950-2000.

Table P12a. Monthly Sales of Gasoline 1990-2002 (1000 gallons/day)¹

| 1990 938 1,063 1,118 1,191 1,320 1,472 1,705 1,676 1,347 1,228 1,262 1,058 468 | |
|--|-------|
| 1001 1 059 048 1 108 1 106 1 212 1 280 1 736 1 668 1 202 1 284 1 185 1 001 46 | 3,783 |
| 1991 1,058 948 1,108 1,196 1,313 1,389 1,736 1,668 1,302 1,384 1,185 1,091 468 | |
| 1992 1,094 1,132 1,103 1,222 1,308 1,441 1,559 1,551 1,308 1,281 1,158 1,168 46 | 7,654 |
| 1993 996 1,071 1,104 1,200 1,237 1,611 1,350 1,553 1,396 1,244 1,155 1,081 450 | 6,375 |
| 1994 988 1,053 1,151 1,168 1,253 1,537 1,440 1,581 1,309 1,318 1,226 1,135 46 | 1,525 |
| 1995 1,050 1,101 1,193 1,204 1,315 1,449 1,615 1,613 1,373 1,335 1,201 1,147 474 | 4,907 |
| 1996 1,080 1,108 1,140 1,310 1,298 1,465 1,693 1,617 1,357 1,315 1,223 1,126 48 | 0,130 |
| 1997 1,090 1,114 1,139 1,245 1,406 1,505 1,729 1,735 1,459 1,415 1,294 1,258 499 | 9,202 |
| 1998 1,090 1,148 1,246 1,316 1,380 1,532 1,746 1,633 1,438 1,373 1,261 1,238 499 | 9,388 |
| 1999 1,106 1,216 1,385 1,258 1,313 1,533 1,777 1,803 1,597 1,470 1,428 1,417 52 | 6,901 |
| 2000 1,074 1,256 1,311 1,237 1,411 1,613 1,674 1,689 1,437 1,334 1,274 1,188 50 | 3,401 |
| 2001 1,140 1,159 1,216 1,330 1,409 1,464 1,691 1,717 1,427 1,428 1,309 1,254 50 | 3,828 |
| 2002 1,147 1,181 1,245 1,239 1,392 1,482 1,716 1,670 | |
| average 1059 1114 1184 1240 1330 1501 1643 1653 1396 1344 1248 1180 | |
| median 1077 1111 1146 1230 1314 1489 1692 1651 1385 1335 1244 1157 | |

¹All sales by prime suppliers, which are firms that produce, import or transport gasoline across State boundaries and local marketing areas, and sell the product to local distributors, local retailers or end users for all purposes.

Source: US Department of Energy, Energy Information Administration EIA-782C data base. This information also appears in *Petroleum Monthly*, Table 48.

Table 12b. Monthly Sales of Diesel 1990-2002 (1000 gallons/day)^{1,2}

| | | | | | | | | | | | | | TOTAL |
|---------|-----|-----|-----|-------|-----|------|-----|-------|-----|-----|-----|-----|--------------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | (1,000 gal.) |
| 1990 | 480 | 580 | | 684 | 645 | 653 | 719 | 800 | 708 | 647 | 526 | 369 | 206,832 |
| 1991 | 486 | 421 | 610 | | 621 | 684 | 821 | | 733 | 726 | 461 | 498 | 184,768 |
| 1992 | 532 | 578 | 707 | 698 | 666 | 593 | 673 | 803 | 793 | 648 | 515 | 521 | 235,727 |
| 1993 | 438 | 565 | 639 | 723 | 644 | 717 | | 849 | 840 | 738 | 540 | 604 | 221,705 |
| 1994 | 455 | 583 | 658 | 741 | 742 | .760 | 697 | 842 | 816 | 722 | 656 | 606 | 251,892 |
| 1995 | 635 | 662 | 745 | 810 | 780 | 769 | 796 | 988 | 892 | 741 | 639 | 530 | 273,478 |
| 1996 | 564 | 583 | 761 | 885 | 759 | 822 | 886 | 939 | 750 | 818 | 614 | 528 | 271,912 |
| 1997 | 494 | 622 | 698 | 910 | 866 | 834 | 937 | 1,008 | 948 | 890 | 696 | 641 | 290,590 |
| 1998 | 576 | 684 | 765 | 857 | 755 | 772 | 860 | 893 | 818 | 801 | 609 | 555 | 272,123 |
| 1999 | 591 | 637 | 830 | 795 | 817 | 856 | 923 | 980 | 938 | 866 | 732 | 833 | 298,458 |
| 2000 | 663 | 731 | 840 | 806 | 858 | 858 | 869 | 992 | 878 | 865 | 830 | 615 | 299,100 |
| 2001 | 630 | 773 | 780 | 1,028 | 913 | 839 | 964 | 1,135 | 919 | 874 | 754 | 690 | 313,365 |
| 2002 | 719 | 687 | 746 | 779 | 812 | 846 | 974 | 950 | | | | | |
| average | 545 | 618 | 730 | 812 | 755 | 763 | 831 | 930 | 836 | 778 | 631 | 582 | |
| median | 548 | 603 | 745 | 806 | 757 | 770 | 860 | 939 | 829 | 771 | 626 | 579 | |

¹All sales by prime suppliers, which are firms that produce, import or transport gasoline across State boundaries and local marketing areas, and sell the product to local distributors, local retailers or end users for all purposes.

Source: US Department of Energy, Energy Information Administration EIA-782C data base. This information also appears in *Petroleum Monthly*, Table 50.

²Data includes very minor amounts of #2 heating oil

Table P13. Average Retail Price of Gasoline, 1990-2002 (cents/gallon)¹

| | Dec | 139.5 | 115.1 | 121.6 | 123.9 | 127.3 | 122.1 | 138.5 | 133.0 | 106.7 | | 166.2 | 119.2 | | 128.5 | 123.9 |
|---|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|--------|
| | Nov | 142.8 | 118.0 | 126.0 | 128.1 | 129.7 | 123.8 | 139.9 | 137.4 | 114.8 | 141.7 | 168.9 | 128.9 | | 133.3 | 129.3 |
| | Oct | 144.1 | 118.5 | 127.8 | 128.3 | 132.3 | 127.0 | 142.1 | 138.9 | 119.0 | 139.0 | 172.7 | 147.5 | | 136.4 | 135.6 |
| | Sep | 138.2 | 119.2 | 129.6 | 126.2 | 134.1 | 127.3 | 142.1 | 137.7 | 121.4 | 140.7 | 163.5 | 157.6 | | 136.5 | 135.9 |
| • | Aug | 130.0 | 118.7 | 131.5 | 124.5 | 133.2 | 125.7 | | 136.9 | 121.5 | 138.8 | 159.6 | 157.7 | 147.6 | 134.4 | 131.5 |
| • | Jul | 112.6 | 118.7 | 131.7 | 124.6 | 133.0 | 127.0 | 137.7 | 135.7 | 121.8 | 136.8 | 159.6 | 154.0 | 148.3 | 132.8 | 132.4 |
| | Jun | 112.2 | 118.9 | 127.3 | 122.4 | 128.5 | 129.0 | 139.6 | 136.6 | 121.3 | 130.3 | 159.4 | 161.2 | 147.7 | 132.2 | 128.8 |
| • | May | 110.9 | 117.2 | 118.8 | 120.2 | 124.4 | 129.4 | 141.1 | 137.4 | 121.9 | 130.1 | 158.9 | 169.3 | 147.5 | 131.6 | 126.9 |
| | Apr | 109.4 | 114.1 | 110.7 | 115.2 | 116.1 | 122.9 | 140.1 | 137.5 | 122.1 | | 159.5 | 154.8 | | 127.5 | 122.1 |
| | Mar | 108.5 | 114.3 | 107.3 | 112.6 | 114.2 | 120.2 | 130.8 | 138.1 | 121.3 | 104.4 | 161.2 | 147.2 | 137.2 | 123.3 | 117.3 |
|) | Feb | 107.7 | 126.0 | 105.2 | 111.8 | 114.6 | 122.0 | 125.3 | 137.3 | 124.5 | 99.4 | 147.0 | 150.5 | 121.8 | 122.6 | 123.3 |
| | Jan | 109.2 | 132.2 | 109.6 | 115.3 | 116.5 | 122.6 | 121.7 | 138.4 | 129.1 | 100.2 | 139.5 | 151.1 | | 123.8 | 122.2 |
| | | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | Average | Median |

¹State-wide average price at the pump for all grades, in nominal dollars. Some data are missing.

Source: U.S. Department of Energy, Energy Information Agency, Form EIA-782A and Form EIA-782B data bases; also appears in Petroleum Monthly, Table 31.

Table P14. Estimated Price of Motor Fuel and Motor Fuel Taxes, 1970-2001

| | Date Changed | = | | | | | | | | | Jan. 1 | | | | 1-Apr | | Jan. 1 | | Jan. 1 | | | Dec. 1 | | | Oct. 1 | | | Jan. 1 | Oct. 1 | | | | |
|---------------------|--------------------------------|------|------|------|------|------|--------|------|--------|------|---------|------|------|------|---------|--------|----------|--------|--------|------|------|--------|------|--------|--------|--------|-------|--------|--------|-------|-------|--------|--------|
| Federal Gasohol | Tax (¢/gallon) | | | | | | | | | | 0 | 0 | 0 | 0 | 4 | 4 | က | က | 3.1 | 3.1 | 3.1 | 8.72 | 8.72 | 8.72 | 132 | 132 | 132 | 12.92 | 132 | 132 | 132 | 132 | 132 |
| | Date Tax Changed (¢/gallon) | | | | | | | | | | April 1 | | | | July 1 | | | Aug. 1 | July 1 | | | | | July 1 | July 1 | July 1 | | | | | | | |
| State Gasohol | Tax (¢/gallon) | | | | | | | | | | 2 | 2 | 7 | 2 | 15 | 15 | 15 | 17 | 20 | 20 | 20 | 20 | 20 | 21 | 24 | 27 | 27 | 27 | 27 | 27 | 27 | 27 | 27 |
| | Date Changed | | | | | | | • | | | | | - | | April 1 | Aug. 1 | | | Jan. 1 | | | Dec. 1 | | | Oct. 1 | | | Jan. 1 | Oct. 1 | | | | |
| Federal Diesel | Tax (¢/gallon) | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 0 | 15 | 15 | 15 | 12.1 | 15.1 | 15.1 | 20.1 | 20.1 | 20.1 | 24.4 | 24.4 | 24.4 | 24.3 | 24.4 | 24.4 | 24.4 | 24.4 | 24,4 |
| | Date Tax Changed (¢/gallon) | | | | | | June 1 | | July 1 | | July 1 | | | | July 1 | | | | July 1 | | | | | July 1 | July 1 | July 1 | | | | | | | |
| State Diesel | | 1 | 6 | თ | တ | တ | 9.75 | 9.75 | 10 | 9 | = | = | = | 1 | 17 | 17 | 17 | 17 | 20 | 20 | 20 | 20 | 20 | 21 | 24 | 27.75 | 27.75 | 27.75 | 27.75 | 27.75 | 27.75 | 27.75 | 27.75 |
| | Diesel Tax (\$/gallon) | 0.21 | 0.22 | 0.22 | 0.25 | 0.40 | 0.41 | 0.45 | 0.47 | 0.49 | 0.71 | 1.03 | 1.20 | 1.17 | 0.99 | 1.00 | 0.94 | 0.95 | 0.99 | 1.02 | 1.13 | 1.28 | 1.24 | 1.23 | 1.24 | 1.24 | 1.25 | 1.40 | 1.20 | 1.31 | 1.30 | N A | Y Y |
| | Date Changed | | | | | | _ | | | | | | | | April 1 | | | _ | Jan. 1 | | | Dec. 1 | | | Oct. 1 | | | Jan, 1 | Oct. 1 | | | | |
| Federal Gasoline | Tax (¢/gallon) | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 0 | 0 | о | 6 | 9.1 | 9.1 | 9.1 | 14.1 | 14.1 | 14.1 | 18.4 | 18.4 | 18.4 | 18.3 | 18.4 | 18.4 | 18.4 | 18.4 | 18.4 |
| | Date Changed | | | | | | June 1 | | July 1 | | July 1 | | | | July 1 | | | Aug. 1 | July 1 | | | | | July 1 | July 1 | July 1 | | | | | | | |
| State Gasoline | Tax (¢/gallon) | 7 | 7 | 7 | 7 | 7 | 7.75 | 7.75 | ω (| œ | თ | 0 | 6 | 0 | 15 | 15 | 15 | 17 | 20 | 20 | 20 | 20 | 20 | 21 | 24 | 27 | 27 | 27 | 27 | 27 | 27 | 27 | 27 |
| Motor | Gasoline (\$/gallon) (| | 0.37 | 0.35 | 0.40 | 0.54 | 09.0 | 0.61 | 99'0 | 0.69 | 0.88 | 1.07 | 1.31 | 1.30 | 1.15 | 1.16 | 1.16 | 0.90 | 0.98 | 0.99 | 1.10 | 1.22 | 1.19 | 1.22 | 1.22 | 1.27 | 1.25 | 1.37 | 1.37 | 1.20 | 1.31 | 1.60 | 1.51 |
| | TEAR | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 |

Gasohol was not defined in federal tax law until 1979. Products fater defined as gasohol (10 percent ethanol by volume) were taxable as gasoline until 1979. From 1979 to 1963, gasohol was exempt from gasoline tax. Price series data on gasohol were not available

² Blends using methanol, and amounts of ethanol between 5.7 and 10 percent, were taxed at lower rates.

Through Company Outlets, annual reports, 1985-2001 (EIA-0487). All other fuel prices are from U.S. Department of Energy, Energy Information Administration, State Energy Price and Expenditure Report, annual reports and Expenditure Reports prices in \$/million Blu. The source document omits federal diesel fuel tax from 1970-82; therefore, the tederal tax has been added and is included in the 1970-82 diesel prices listed NOTES: Price is average of all grades, in nominal dollars. Gasoline and diesel prices include state and federal per gallon fuel taxes. All prices except 1984-2001 gasoline prices are derived from the State Energy Price SOURCES: Gasoline prices for 1984-2001 are from U.S. Department of Energy, Energy Information Administration, Petroleum Marketing Annual, Reliner/Reseller Motor Gasoline Prices by Grade, Sales to End Users above. See the source document for information on changes over time in the data sources and in the estimation methods used. In particular, note that diesel prices from 1984 forward are estimated as the ratio of the PAD IV diesel fuel price to the PAD IV motor gasoline price times the State motor gasoline price, plus federal and state per gallon taxes. PAD IV includes Colorado, Idaho, Montana, Utah and Wyoming. 1970-99 (EIA-0376). Tax ligures are from U.S. Department of Transportation, Federal Highway Administration, Highway Statistics, annual reports 1970-2000.

